

## High level overview of sample objects in object architecture

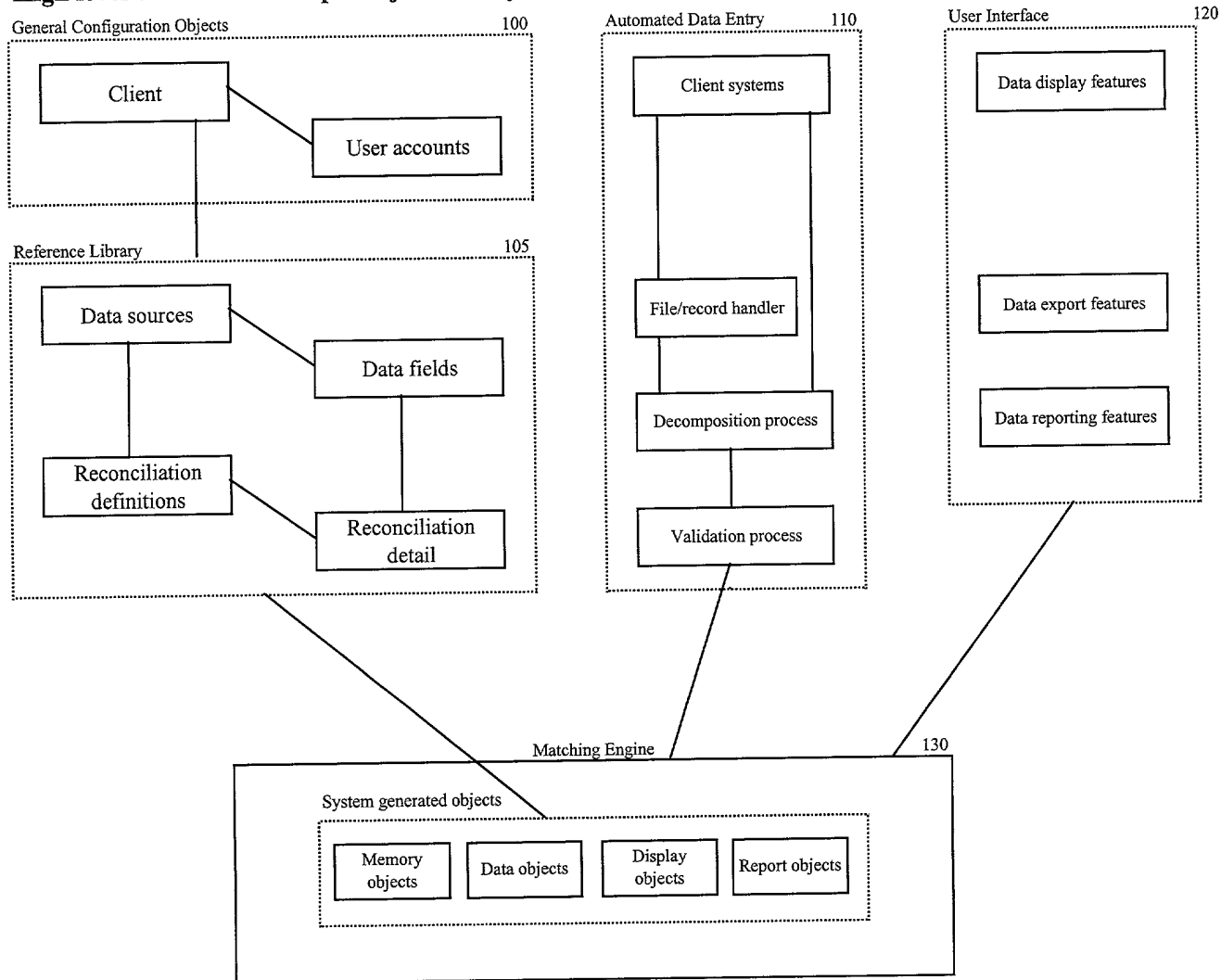


FIG. 1

## TECHNOLOGY BUILD

### KEY TASKS FOR ARCHITECTING NEW BUSINESS SOLUTION

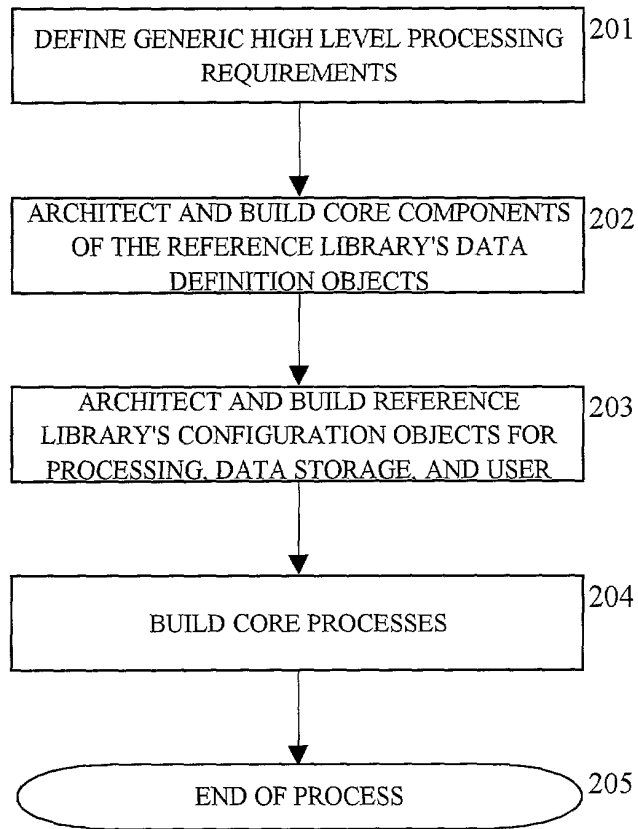


FIG. 2

USER APPLICATION PROCESSING  
KEY TASKS FOR CONFIGURING APPLICATION PROCESSING

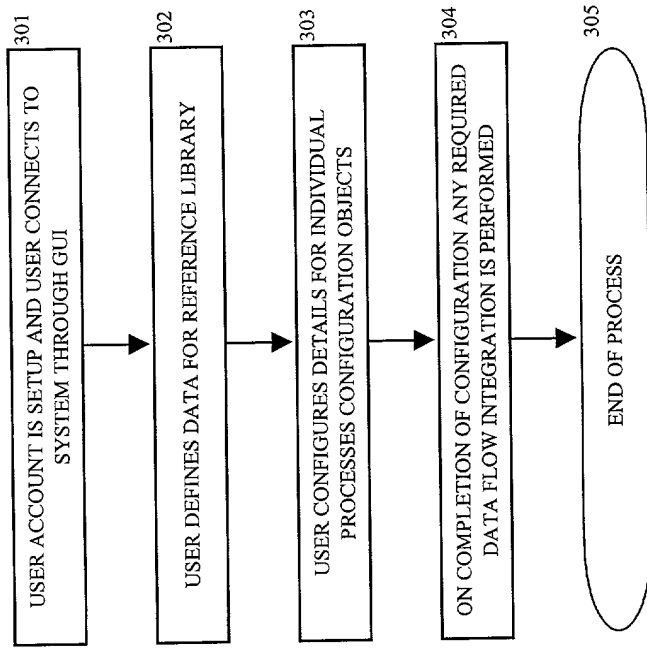
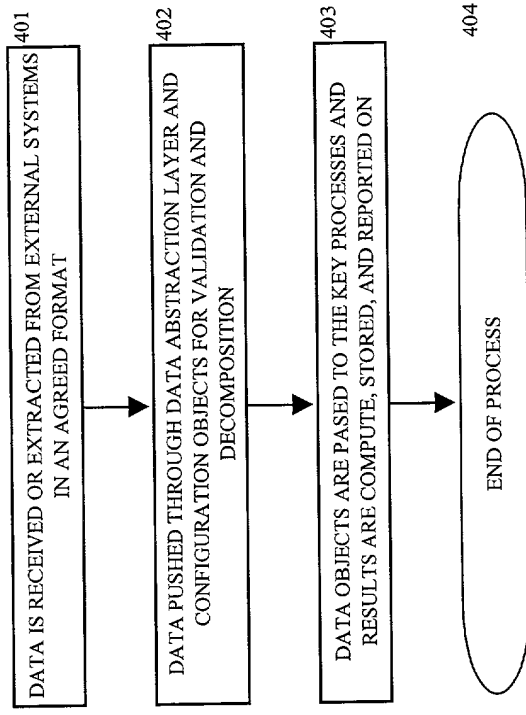


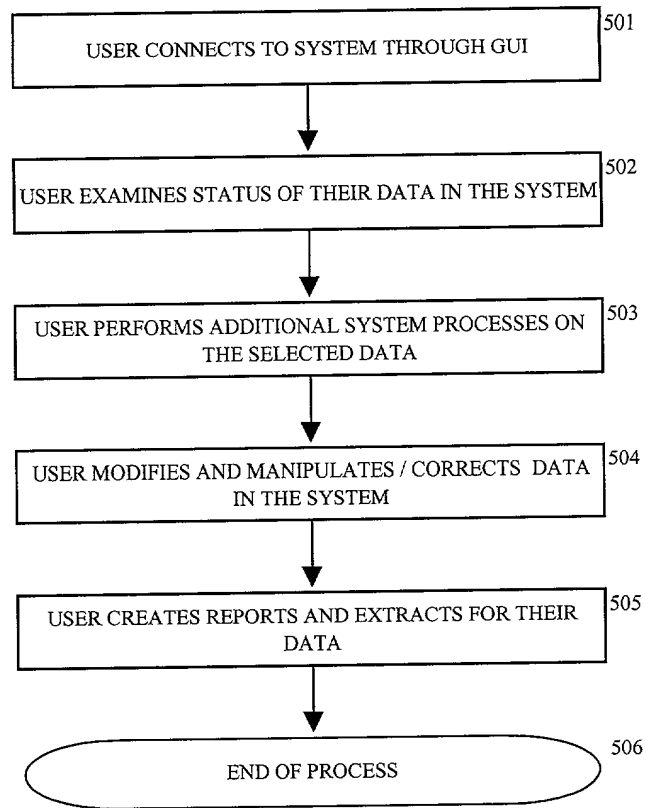
FIG. 3

**AUTOMATED DATA PROCESSING  
INITIAL DATA RECEIPT/EXTRACTION AND PROCESSING**



**FIG. 4**

**USER APPLICATION PROCESSING  
STANDARD USER INTERACTION PROCESS**



**FIG. 5**

Reconciliation Manager business process overview

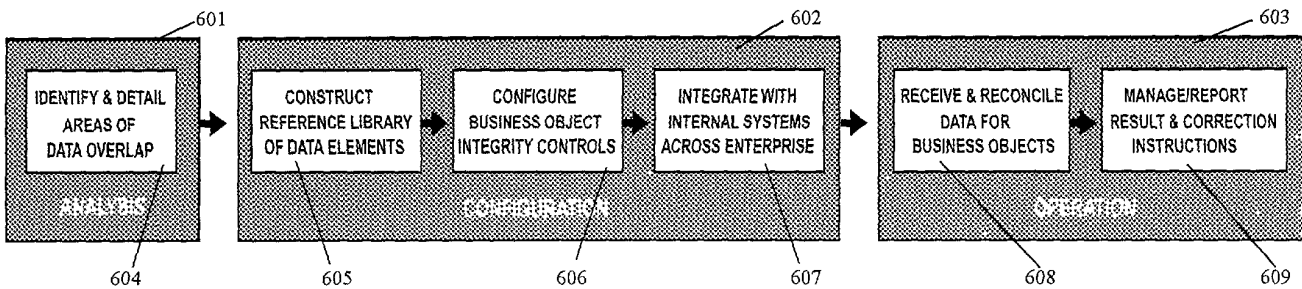


FIG. 6a

Reconciliation Manager operation overview

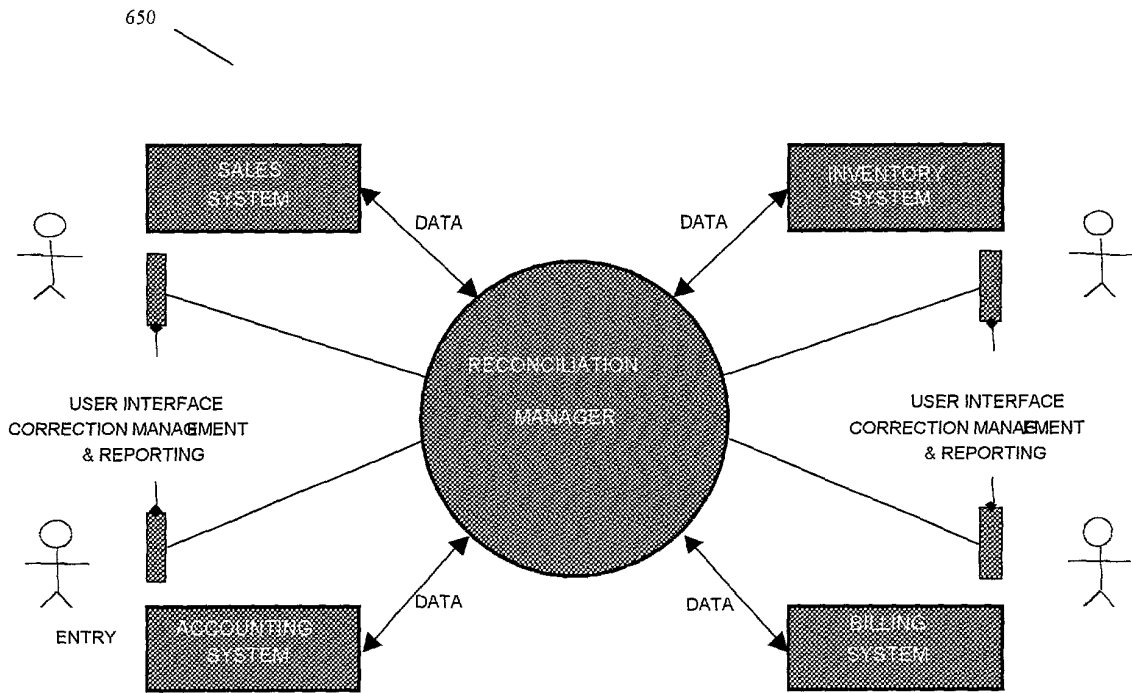


FIG. 6b

APPLICATION CONFIGURATION PROCESSES

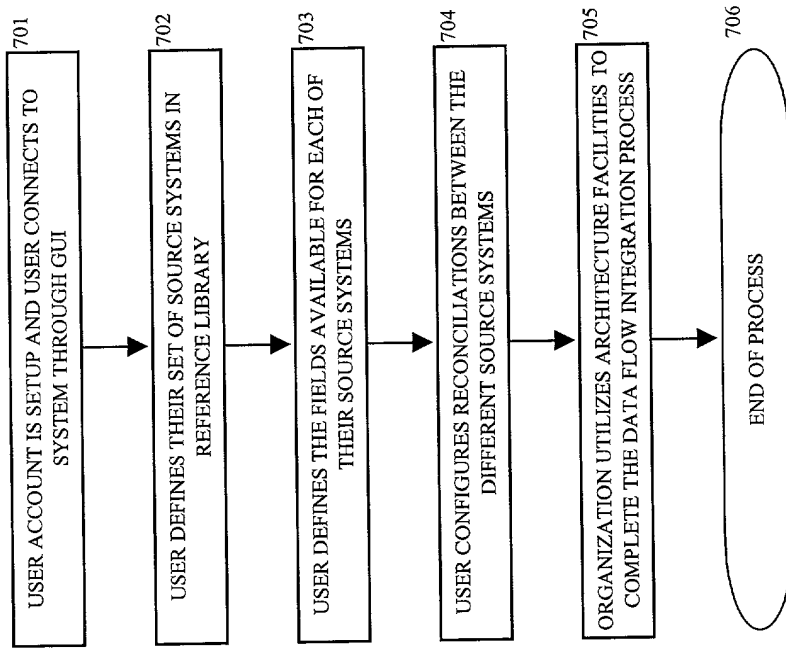
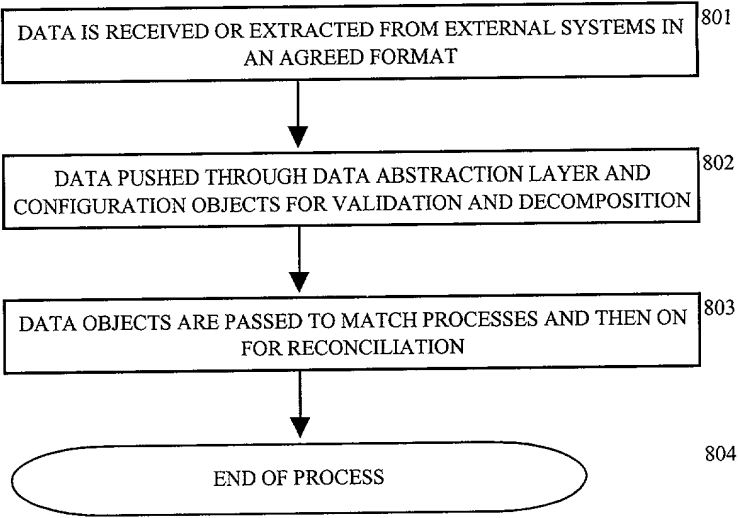


FIG. 7

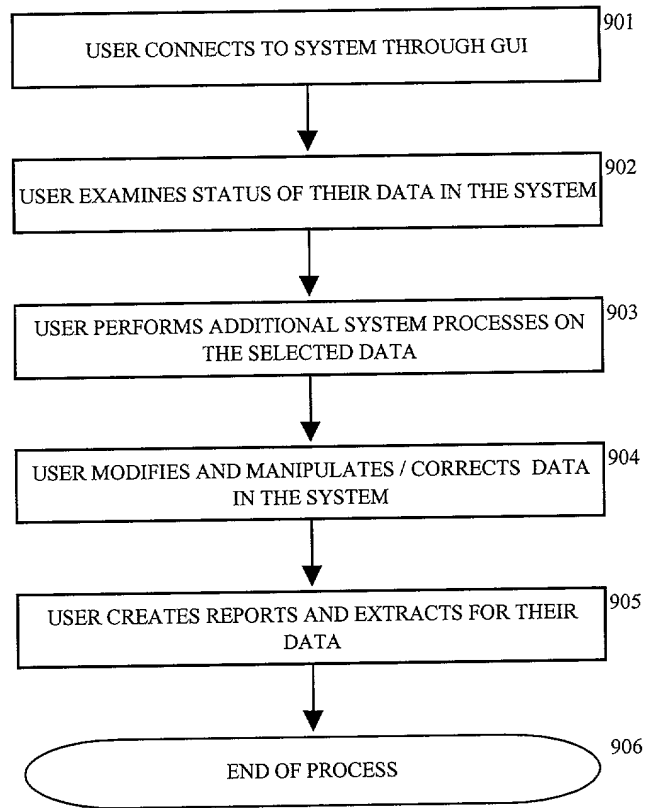
**AUTOMATED DATA PROCESSING  
RECONCILIATION MANAGER DATA RECEIPT/EXTRACTION AND PROCESSING**



**FIG. 8**



**USER APPLICATION PROCESSING  
RECONCILIATION MANAGER USER INTERACTION PROCESS**



**FIG. 9**

HIGH LEVEL IN MEMORY OBJECT MODEL

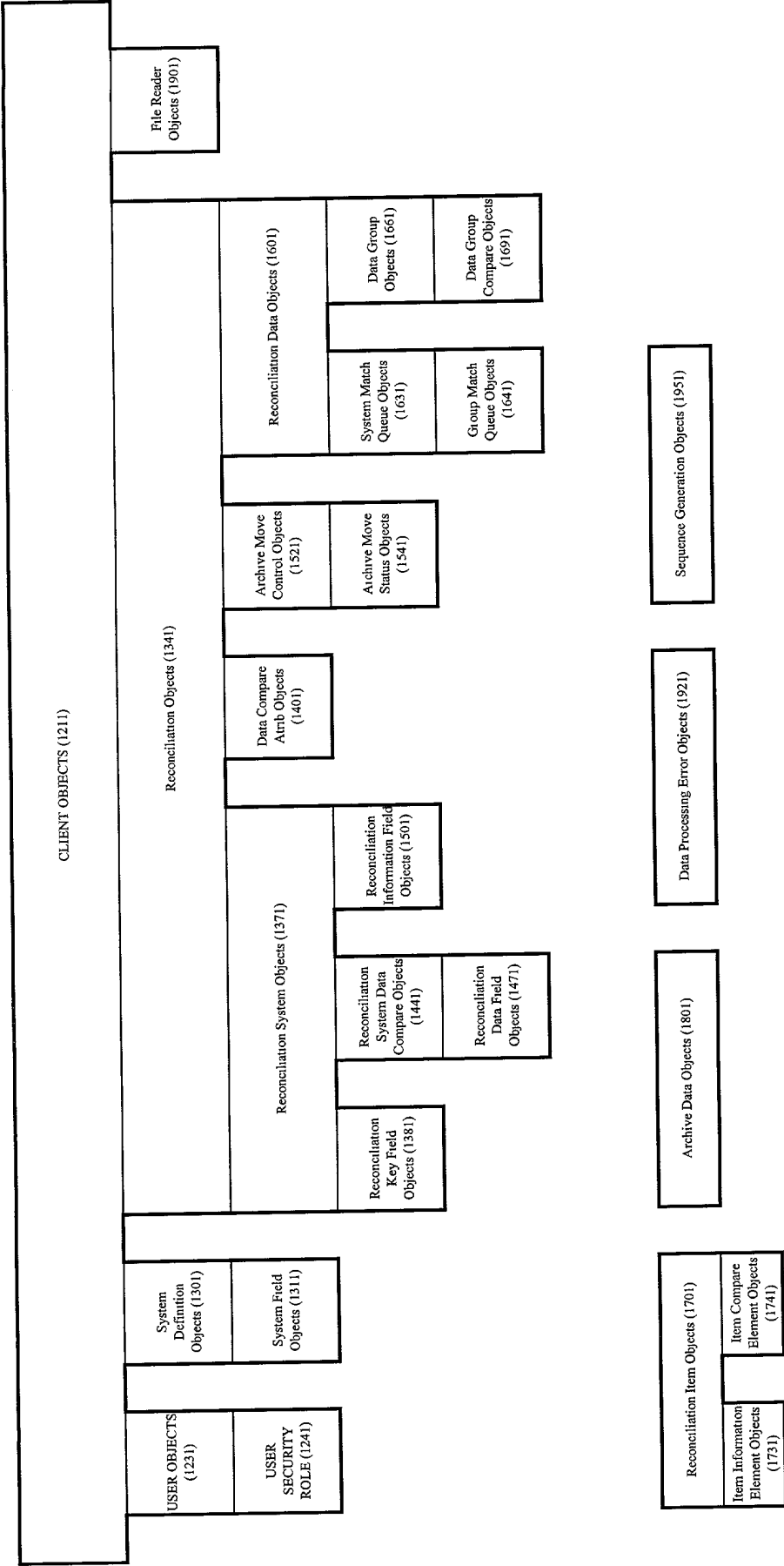


FIG. 10

# USER INTERFACE ADAPTER PROGRAMS

ADAPTER PROGRAM NAME	ADAPTER PROGRAM DESCRIPTION	RELATED IN MEMORY OBJECTS
1101 RHCLDISCLAIMFORM.JSP	PRODUCT LEGAL NOTICE DISPLAY INTERFACE	NONE
1102 RHLOGIN.JSP	USER LOGIN PROGRAM INTERFACE	CLIENT & USER
1103 RHMAIN.JSP	APPLICATION MAIN DISPLAY INTERFACE	VARIED
1104 RHMAINPROC.JSP	APPLICATION MAIN PROGRAM INTERFACE	VARIED
1105 RHCLIENTFORM.JSP	CLIENT OBJECT ADAPTER PROGRAMS	CLIENT
1106 RHCLIENTPRMDTLFORM.JSP	PRIMARY DETAILS DISPLAY / PROGRAM INTERFACE	CLIENT
1107 RHCLIENTSECDFORM.JSP	SECONDARY DETAILS DISPLAY / PROGRAM INTERFACE	CLIENT
1108 RHCLIENTNAMEFORM.JSP	NAME MODIFICATION INTERFACE	CLIENT
1109 RHCLIENTHEADERFORM.JSP	HEADER MODIFICATION INTERFACE	CLIENT
1110 RHCLIENTCLDIRFORM.JSP	CLIENT SIDE DIRECTORIES MODIFICATION INTERFACE	CLIENT
1111 RHCLIENTSRVDIRFORM.JSP	SERVER SIDE DIRECTORIES MODIFICATION INTERFACE	CLIENT
1112 RHCLUSERFORM.JSP	USER AND USER SECURITY OBJECT ADAPTER PROGRAMS	USER
1113 RHUSERFORM.JSP	USER DETAILS DISPLAY / PROGRAM INTERFACE	USER
1114 RHUSERPREFSFORM.JSP	USER PREFERENCES DISPLAY / PROGRAM INTERFACE	USER
1115 RHUSERADDCHNGFORM.JSP	USER ADD / MODIFICATION INTERFACE	USER
1116 RHUSERSECROLEFORM.JSP	USER SECURITY DISPLAY / CHANGE MODIFICATION INTERFACE	USER SECURITY ROLE
1117 RHCLSYSFORM.JSP	SYSTEM AND SYSTEM FIELDS OBJECT ADAPTER PROGRAMS	SYSTEM
1118 RHSYSFORM.JSP	SYSTEM DISPLAY / PROGRAM INTERFACE	SYSTEM
1119 RHSYSADDFORM.JSP	SYSTEM ADD INTERFACE	SYSTEM
1120 RHSYSFLDFORM.JSP	SYSTEM FIELD DISPLAY / PROGRAM INTERFACE	SYSTEM FIELD
1121 RHSYSFLDADDFORM.JSP	SYSTEM FIELD ADD INTERFACE	SYSTEM FIELD
1122 RHCLRECFORM.JSP	RECONCILIATION AND RECONCILIATION SUB OBJECT ADAPTER PROGRAM	RECONCILIATION
1123 RHCLRECPROC.JSP	RECONCILIATION PROGRAM INTERFACE	RECONCILIATION
1124 RHRECFORM.JSP	RECONCILIATION DISPLAY / PROGRAM INTERFACE	RECONCILIATION
1125 RHRECADDFORM.JSP	RECONCILIATION ADD INTERFACE	RECONCILIATION
1126 RHRECSYSFORM.JSP	RECONCILIATION SYSTEM DISPLAY / PROGRAM INTERFACE	RECONCILIATION SYSTEM
1127 RHRECSYSADDFORM.JSP	RECONCILIATION SYSTEM ADD INTERFACE	RECONCILIATION SYSTEM
1128 RHRECKEYFORM.JSP	RECONCILIATION KEY FIELD DISPLAY / PROGRAM INTERFACE	RECONCILIATION KEY FIELD
1129 RHRECKEYADDFORM.JSP	RECONCILIATION KEY FIELD ADD INTERFACE	RECONCILIATION KEY FIELD
1130 RHRECDATFORM.JSP	RECONCILIATION DATA DEFINITION DISPLAY / PROGRAM INTERFACE	RECONCILIATION DATA COMPARE & DATA COMPARE ATRIB
1131 RHRECDATCMPFORM.JSP	RECONCILIATION DATA DEFINITION ADD / MODIFICATION INTERFACE	RECONCILIATION DATA COMPARE & DATA COMPARE ATRIB
1132 RHRECDATFLDADDFORM.JSP	RECONCILIATION DATA FIELD ADD INTERFACE	RECONCILIATION DATA FIELD
1133 RHRECINFFORM.JSP	RECONCILIATION INFORMATION DISPLAY / PROGRAM INTERFACE	RECONCILIATION INFORMATION FIELD
1134 RHRECINFADDFORM.JSP	RECONCILIATION INFORMATION ADD INTERFACE	RECONCILIATION INFORMATION FIELD
1135 RHRECARCHFORM.JSP	RECONCILIATION ARCHIVE CONTROL DISPLAY / PROGRAM INTERFACE	ARCHIVE MOVE CONTROL & ARCHIVE MOVE STATUS
1136 RHRECARCHADDFORM.JSP	RECONCILIATION ARCHIVE CONTROL ADD INTERFACE	ARCHIVE MOVE CONTROL
1137 RHRECARCHSTATADDFORM.JSP	RECONCILIATION ARCHIVE STATUS ADD INTERFACE	ARCHIVE MOVE STATUS
1138 RHRECOPTFORM.JSP	RECONCILIATION OPTIONS DISPLAY / PROGRAM INTERFACE	RECONCILIATION
1139 RHCLDATFORM.JSP	RECONCILIATION DATA ADAPTER PROGRAMS	RECONCILIATION DATA OBJECTS
1140 RHCLDATPROC.JSP	RECONCILIATION DATA PROGRAM INTERFACE	RECONCILIATION DATA OBJECTS
1141 RHDATRECFORM.JSP	RECONCILIATION DATA DISPLAY / PROGRAM INTERFACE	RECONCILIATION DATA OBJECTS
1142 RHDATRECPROC.JSP	RECONCILIATION DATA PROGRAM INTERFACE	RECONCILIATION DATA OBJECTS
1143 RHGRPDDETAILFORM.JSP	RECONCILIATION DATA DETAIL DISPLAY INTERFACE	RECONCILIATION DATA OBJECTS
1144 RHDATAFLTRFORM.JSP	RECONCILIATION DATA FILTER INTERFACE	RECONCILIATION DATA OBJECTS
1145 RHDATASTATFORM.JSP	RECONCILIATION DATA STATUS DISPLAY INTERFACE	RECONCILIATION DATA OBJECTS
1146 RHCLRPTFORM.JSP	RECONCILIATION REPORT ADAPTER PROGRAMS	RECONCILIATION DATA OBJECTS
1147 RHRPTEXTFORM.JSP	RECONCILIATION REPORT EXPORT PROGRAM INTERFACE	RECONCILIATION DATA OBJECTS
1148 RHRPTRFORM.JSP	RECONCILIATION REPORT DISPLAY / PROGRAM INTERFACE	RECONCILIATION DATA OBJECTS
1149 RHRPFTLTRFORM.JSP	RECONCILIATION REPORT FILTER INTERFACE	RECONCILIATION DATA OBJECTS
1150 RHRPSTATFORM.JSP	RECONCILIATION REPORT STATUS DISPLAY INTERFACE	RECONCILIATION DATA OBJECTS
1151 RHCLARCHFORM.JSP	ARCHIVE DATA ADAPTER PROGRAMS	ARCHIVE DATA
1152 RHDATAARCHFORM.JSP	ARCHIVE DATA DISPLAY INTERFACE	ARCHIVE DATA
1153 RHDATAARCHPROC.JSP	ARCHIVE DATA PROGRAM INTERFACE	ARCHIVE DATA
1154 RHDATAARCHGRPDDETAILFORM.JSP	ARCHIVE DATA DETAIL DISPLAY INTERFACE	ARCHIVE DATA
1155 RHARCHSTATFORM.JSP	ARCHIVE DATA STATUS DISPLAY INTERFACE	ARCHIVE DATA
1156 RHCLDATAPROCERRORSFORM.JSP	DATA PROCESSING ERRORS ADAPTER PROGRAMS	DATA PROCESSING ERRORS
1157 RHDATAPROCERRORSFORM.JSP	DATA PROCESSING ERRORS DISPLAY / PROGRAM INTERFACE	DATA PROCESSING ERRORS
1158 RHCLFRDRFORM.JSP	FILE READER ADAPTER PROGRAMS	FILE READER
1159 RHCLFRDRPROC.JSP	FILE READER PROGRAM INTERFACE	FILE READER
1160 RHFRDRFORM.JSP	FILE READER DISPLAY INTERFACE	FILE READER
1161 RHFRDRADDFORM.JSP	FILE READER ADD INTERFACE	FILE READER
1162 RHCLARCHGRPMVECNTRFORM.JSP	ARCHIVE MOVE CONTROL ADAPTER PROGRAMS	ARCHIVE MOVE CONTROL
1163 RHCLARCHGRPMVECNTRPROC.JSP	ARCHIVE MOVE CONTROL PROGRAM INTERFACE	ARCHIVE MOVE CONTROL
1164 RHARCHGRPMVECNTRFORM.JSP	ARCHIVE MOVE CONTROL DISPLAY INTERFACE	ARCHIVE MOVE CONTROL
1165 RHCLABOUTFORM.JSP	PRODUCT INFORMATION DISPLAY INTERFACE	NONE
1166 RHJAVADOC.JSP	SYSTEM DOCUMENTATION INTERFACE	NONE
1167 RHCONTEXTHELPFORM.JSP	APPLICATION CONTEXT HELP DISPLAY / PROGRAM INTERFACE	CONTEXT HELP
1168 RHCOMMONMETHODS.JSP	APPLICATION SHARED METHODS PROGRAM INTERFACE	VARIED
1169 RHCOMMONSCRIPTS.JSP	APPLICATION SHARED SCRIPTS PROGRAM INTERFACE	NONE
1170 RHCOMMONSTYLES.CSS	APPLICATION SHARED SCREEN FORMATTING CODES	NONE

FIG. 11

IN MEMORY BASE, CLIENT, USER, AND SECURITY OBJECTS

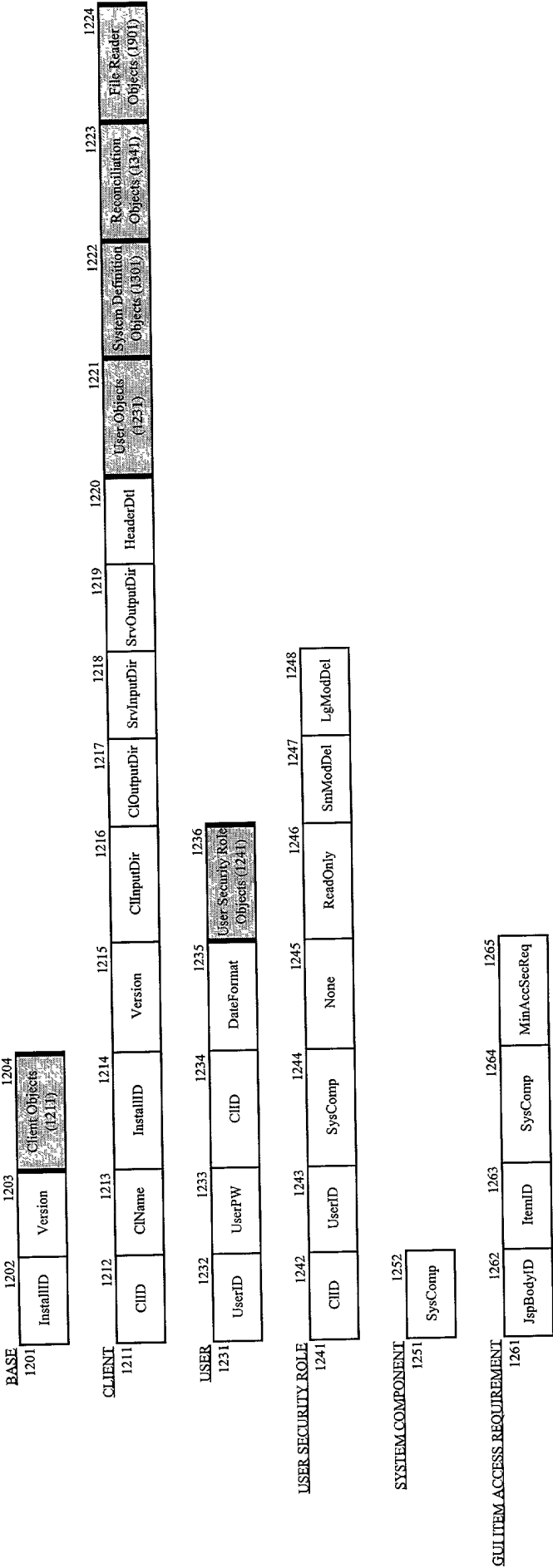


FIG. 12

IN MEMORY REFERENCE LIBRARY OBJECTS

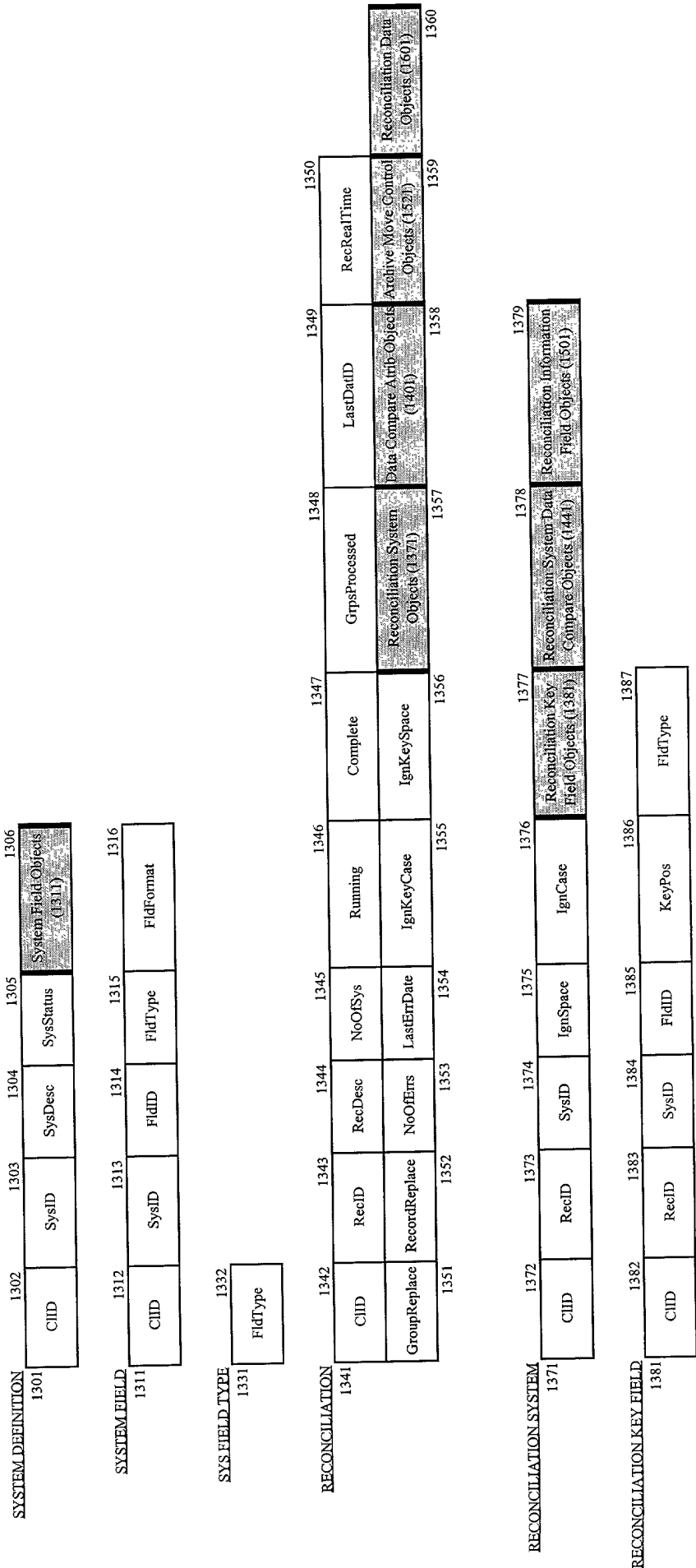


FIG. 13

IN MEMORY REFERENCE LIBRARY OBJECTS

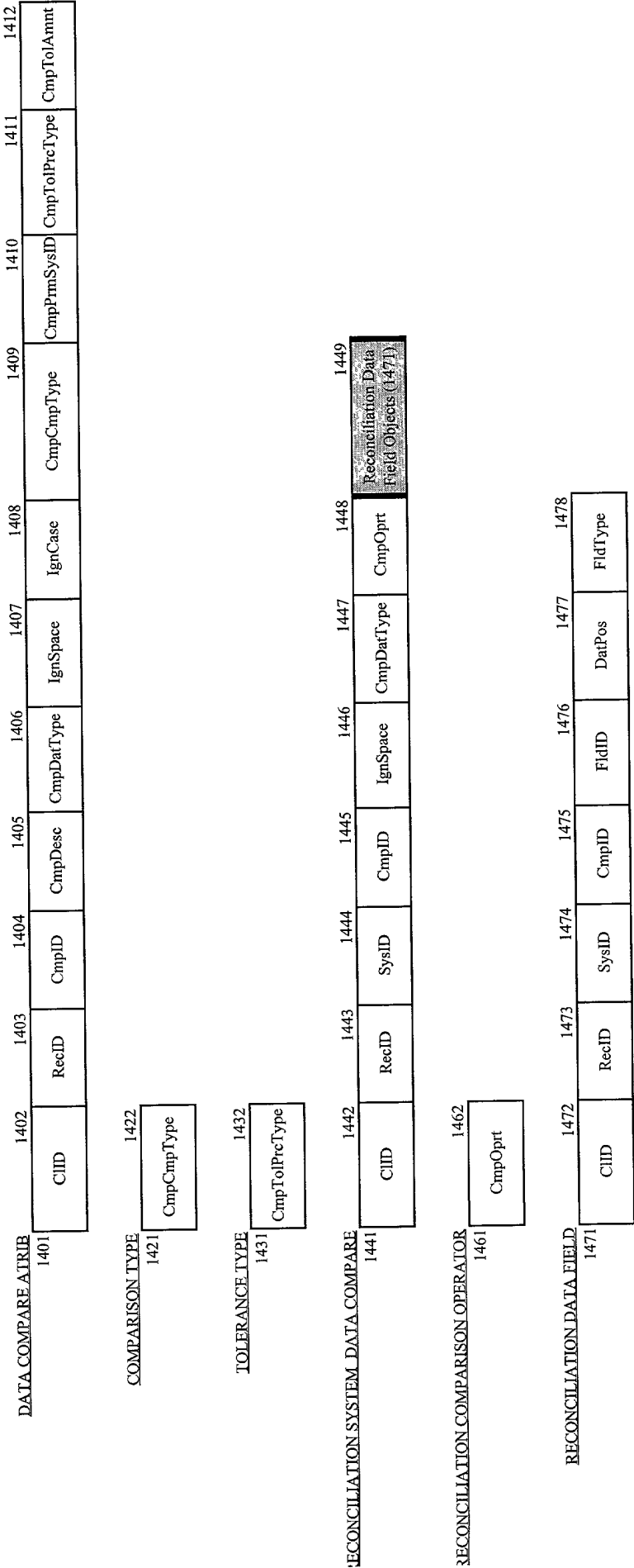


FIG. 14

IN MEMORY REFERENCE LIBRARY OBJECTS

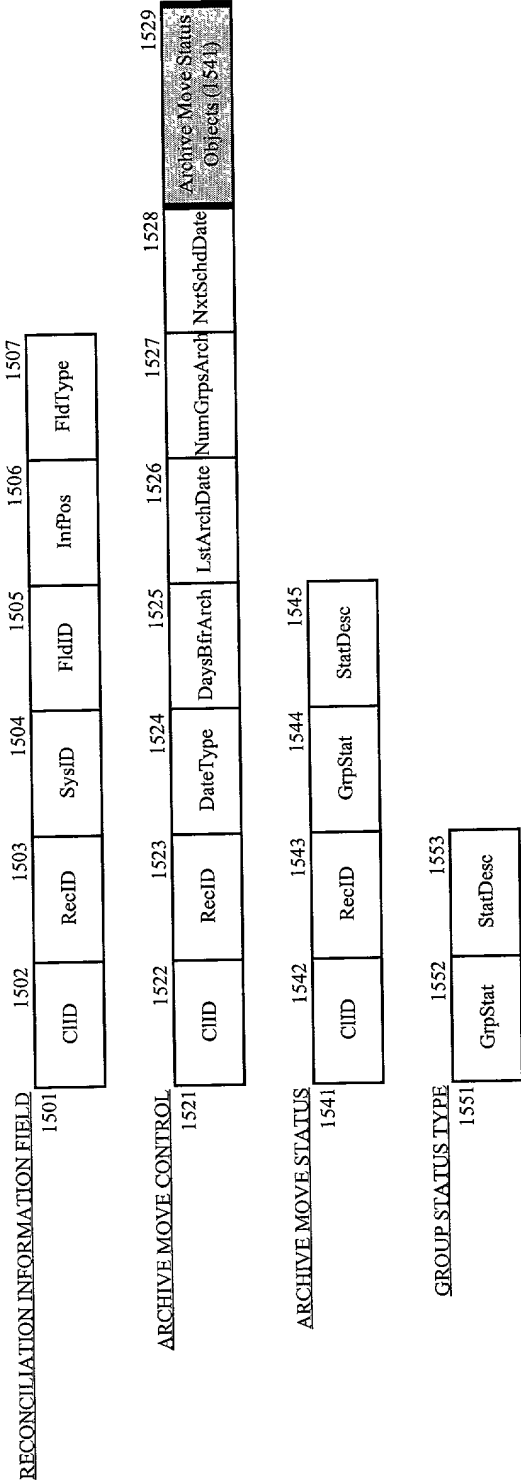


FIG. 15

IN MEMORY RECONCILIATION DATA MANIPULATION OBJECTS

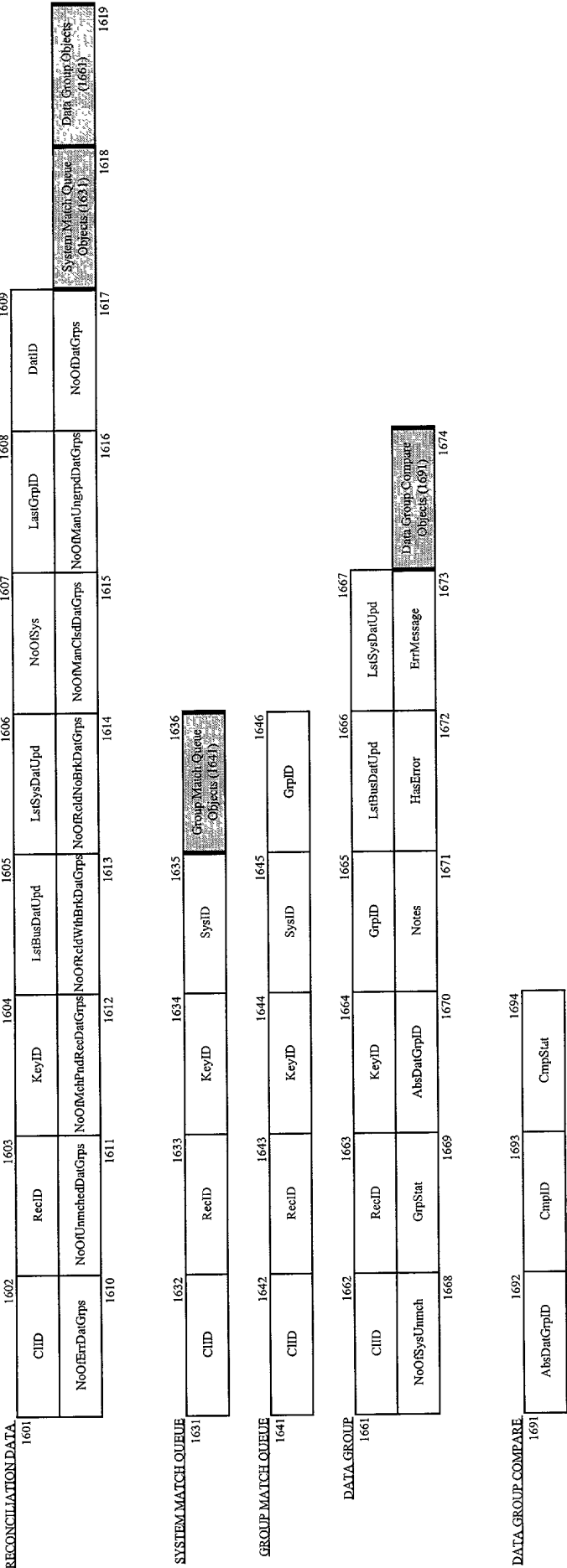


FIG. 16



IN MEMORY RECONCILIATION DATA MANIPULATION OBJECTS

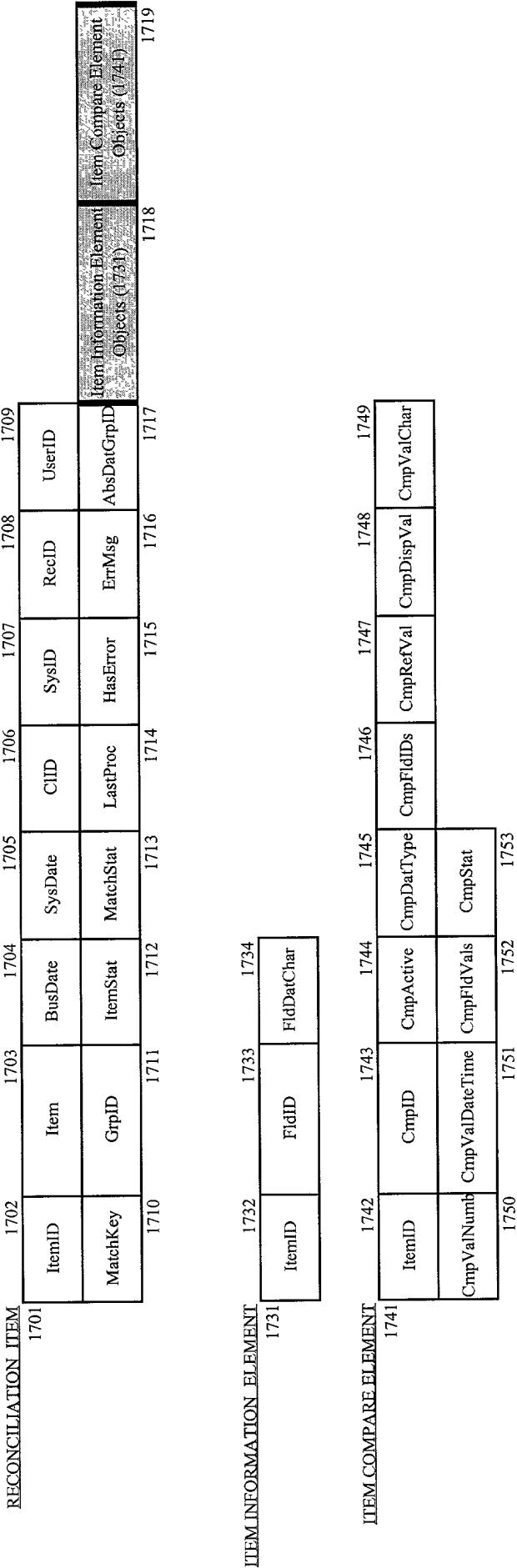


FIG. 17

FIG. 18

IN MEMORY ARCHIVE DATA MANIPULATION OBJECTS

ARCHIVE DATA	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812
	1801										
	ArchGrpID	CIID	RecID	KeyID	OrigGrpID	LstBusDatUpd	LstSysDatUpd	NoOfSysUnmched	GrpStat	OrigAbsGrpID	OrigGrpNotes
	OrigGrpHasError	OrigGrpErrMessage	GrpMchQueData	DatGrpCmpData	RecItemMinBusDate	RecItemMaxBusDate	RecItemMinSysDate	RecItemMaxSysDate	RecItemOrigText	RecItemData	RecItemInflmntData
	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823
											1824

FIG. 18

MISCELLANEOUS IN MEMORY OBJECTS

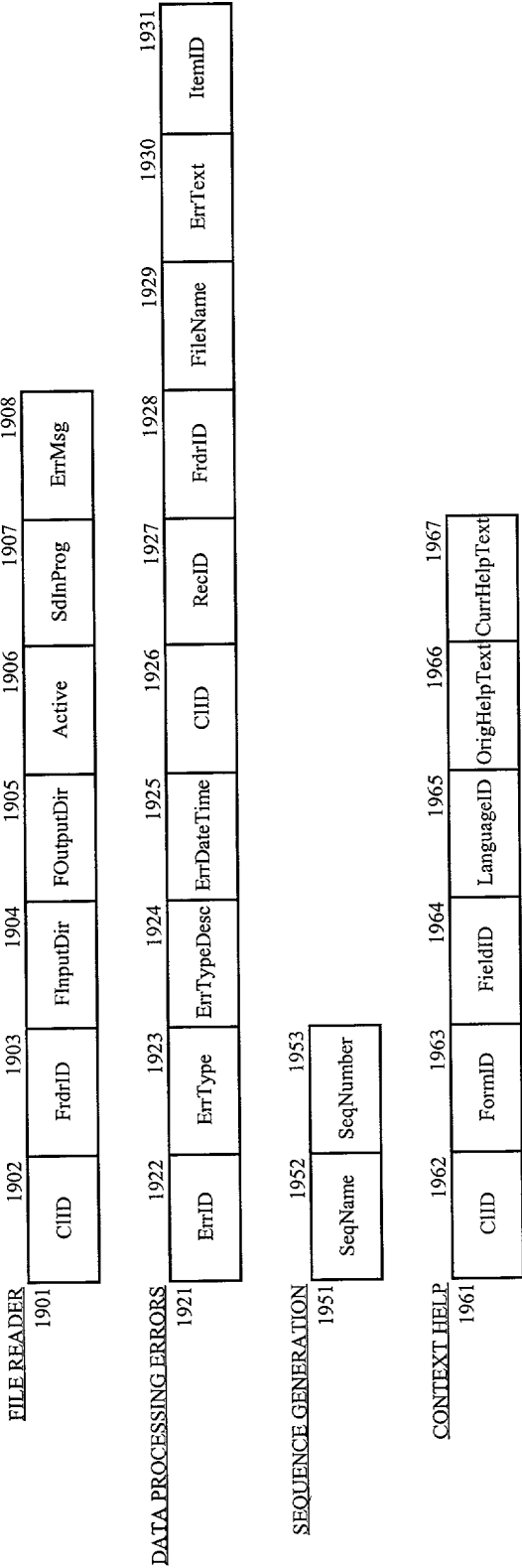


FIG. 19

[illegible]

## DATABASE TABLES

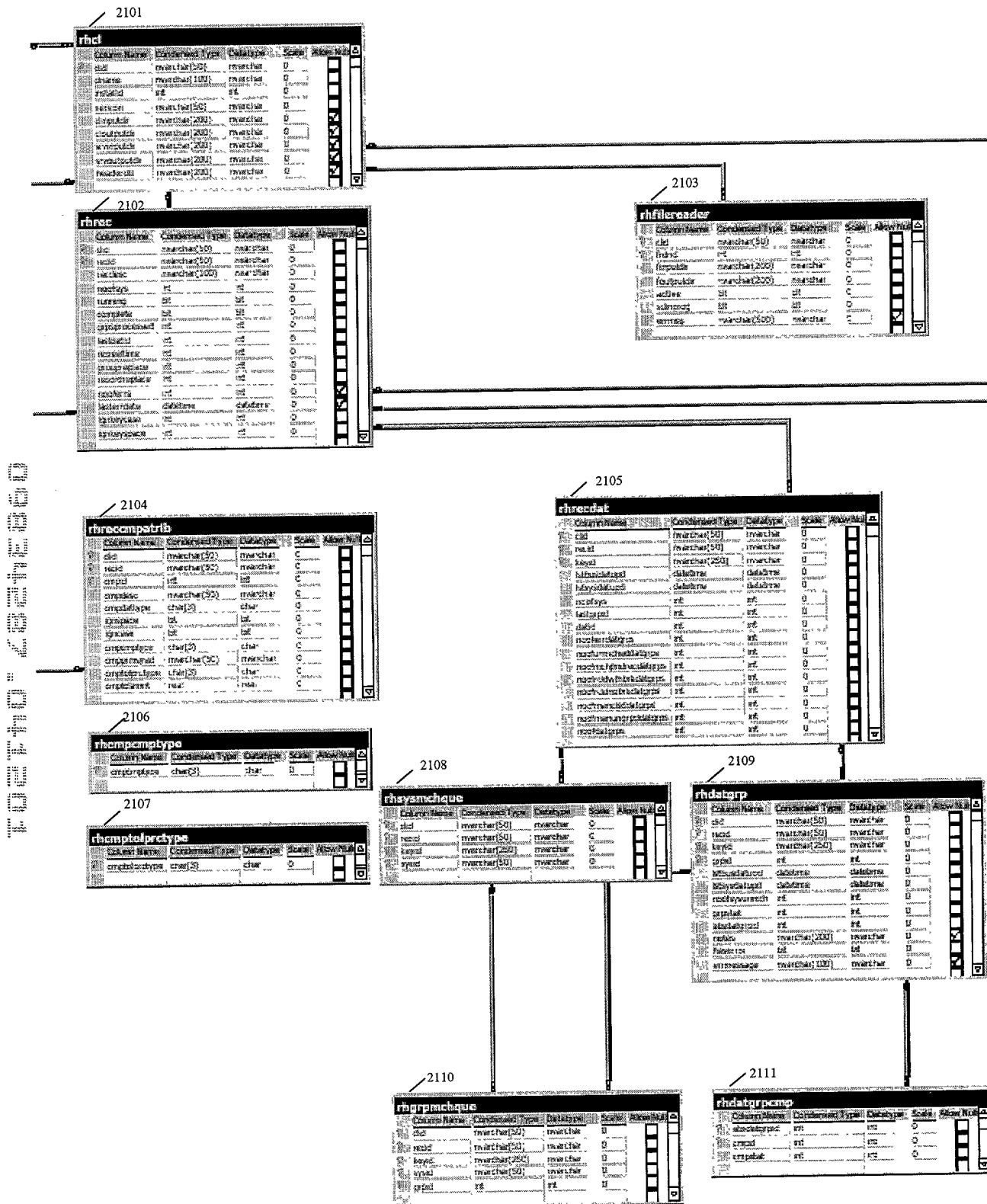


FIG. 21

## DATABASE TABLES

2201

[illegible]

2202

[illegible]

2203

[illegible]

2204

[illegible]

2205

[illegible]

2206

	Culture Name	Concentration Type	Catalogue No.	Sex	Age
1	cul	marche(50)	marche	O	adulte
2	vad	marche(50)	marche	E	adulte
3	capal	marche(50)	marche	O	adulte
4	stanc	marche(50)	marche	O	adulte

2209

Column Name	Column Data Type	Case type	Scale	Group Name
capital	int	int	0	
abkcode	nvarchar(50)	nvarchar	0	

2207

[illegible]

2208

rhoprocid						
Colony Morphology	Cellular type	DNA type	Serotype	Antigen	Δ	
round	AT	III	C			
roughly spherical	marchia (60)	marchia	C			
punctate	marchia (50)	marchia	C			

2210

Column Name	Default Value	Primary Key	Nullable	Index
id	int	int	0	1
username	varchar(255)	varchar(255)	0	1
password	varchar(255)	varchar(255)	0	1
email	varchar(255)	varchar(255)	0	1
phone	varchar(255)	varchar(255)	0	1
address	varchar(255)	varchar(255)	0	1
city	varchar(255)	varchar(255)	0	1
state	varchar(255)	varchar(255)	0	1
zip	varchar(255)	varchar(255)	0	1
created_at	timestamp	timestamp	0	1
updated_at	timestamp	timestamp	0	1

2211

[illegible]

FIG. 22

REFERENCE LIBRARY PROCESSES  
DEFINE SOURCE SYSTEM FOR REFERENCE LIBRARY

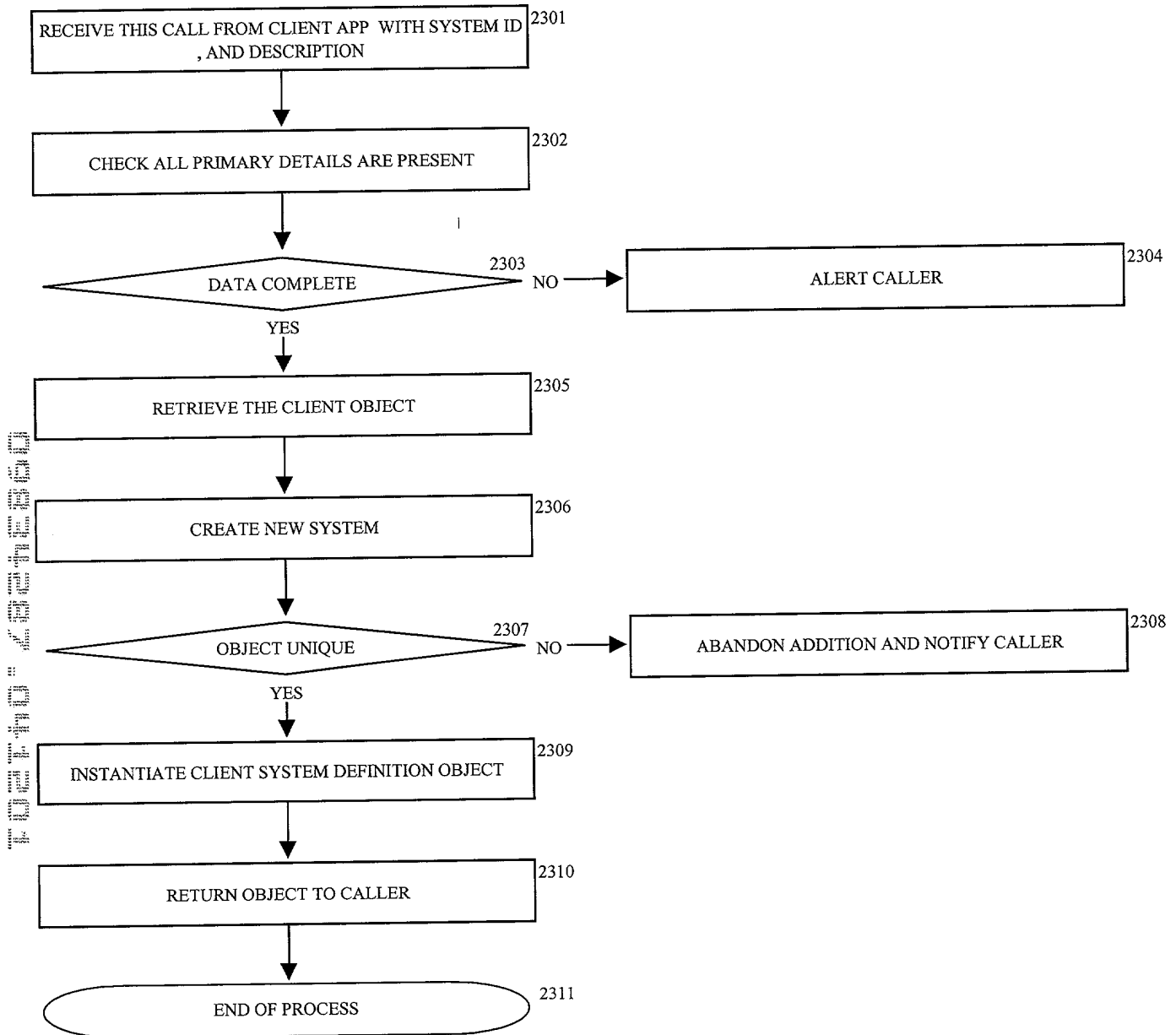


FIG. 23

REFERENCE LIBRARY PROCESSES  
DEFINE SYSTEM FIELD FOR SOURCE SYSTEM

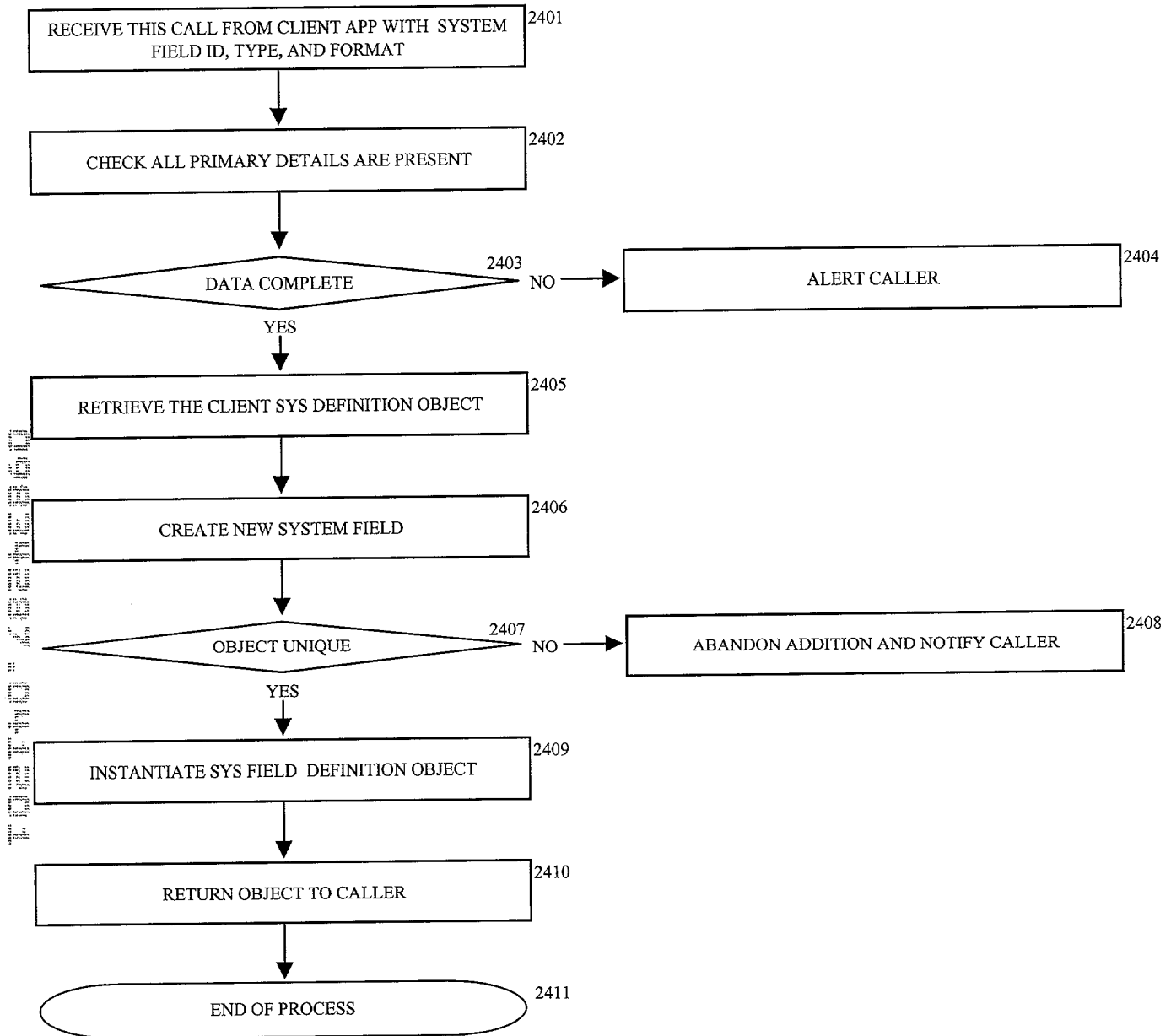


FIG. 24



REFERENCE LIBRARY PROCESSES  
CREATE RECONCILIATION DEFINITION

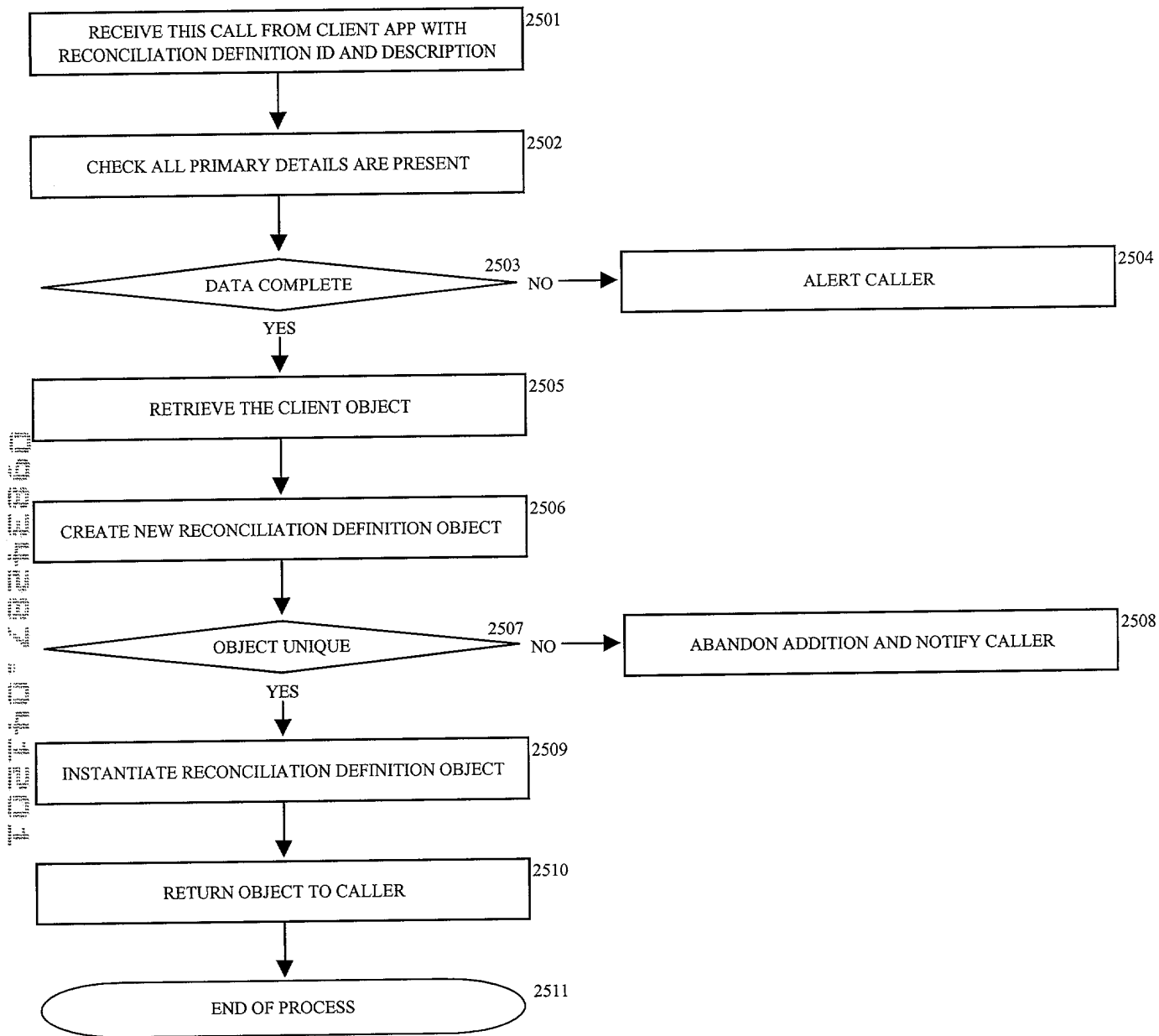


FIG. 25

REFERENCE LIBRARY PROCESSES  
ADD SOURCE SYSTEM TO RECONCILIATION DEFINITION

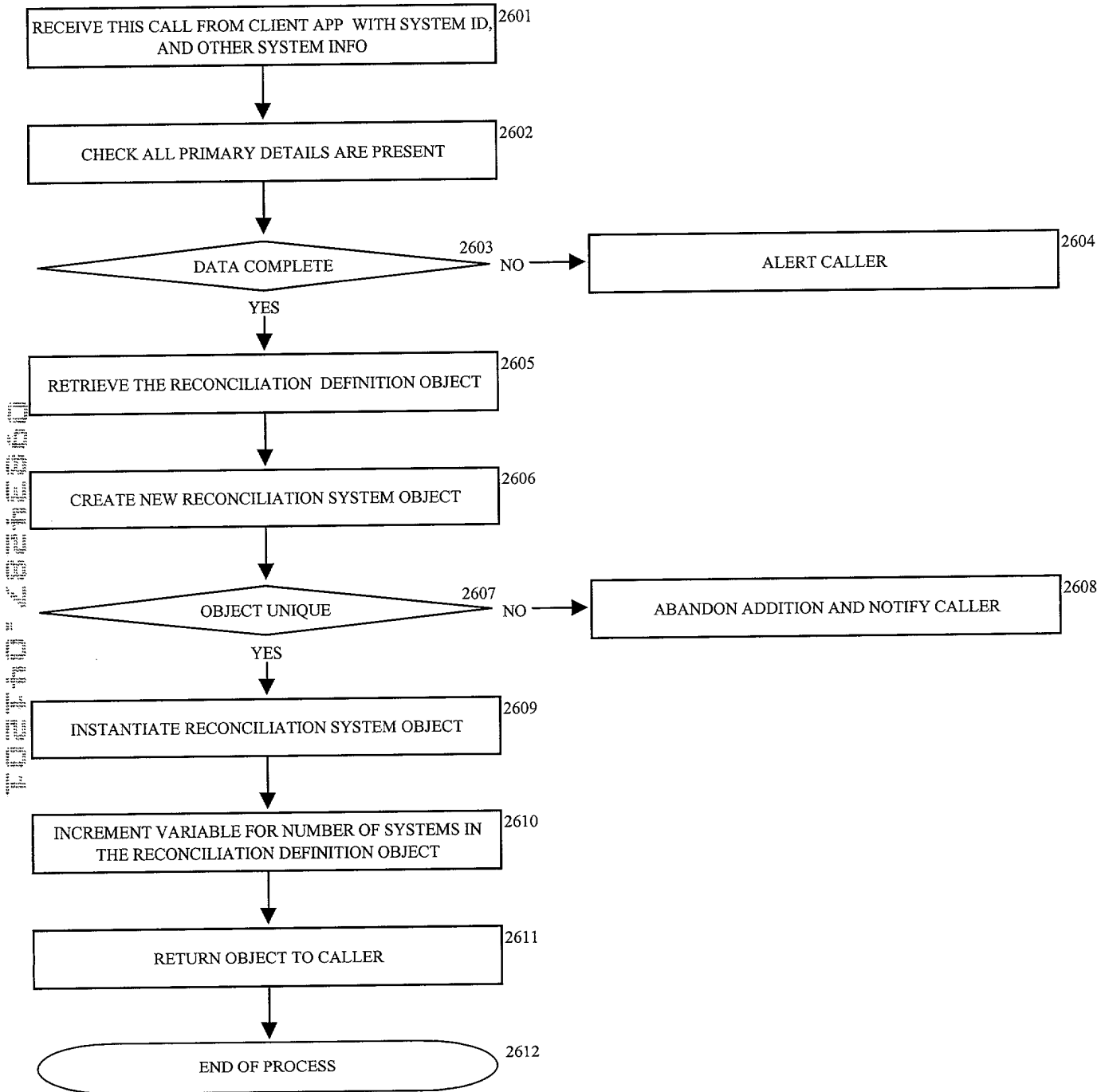


FIG. 26

REFERENCE LIBRARY PROCESSES  
ADD KEY FIELD TO RECONCILIATION SYSTEM

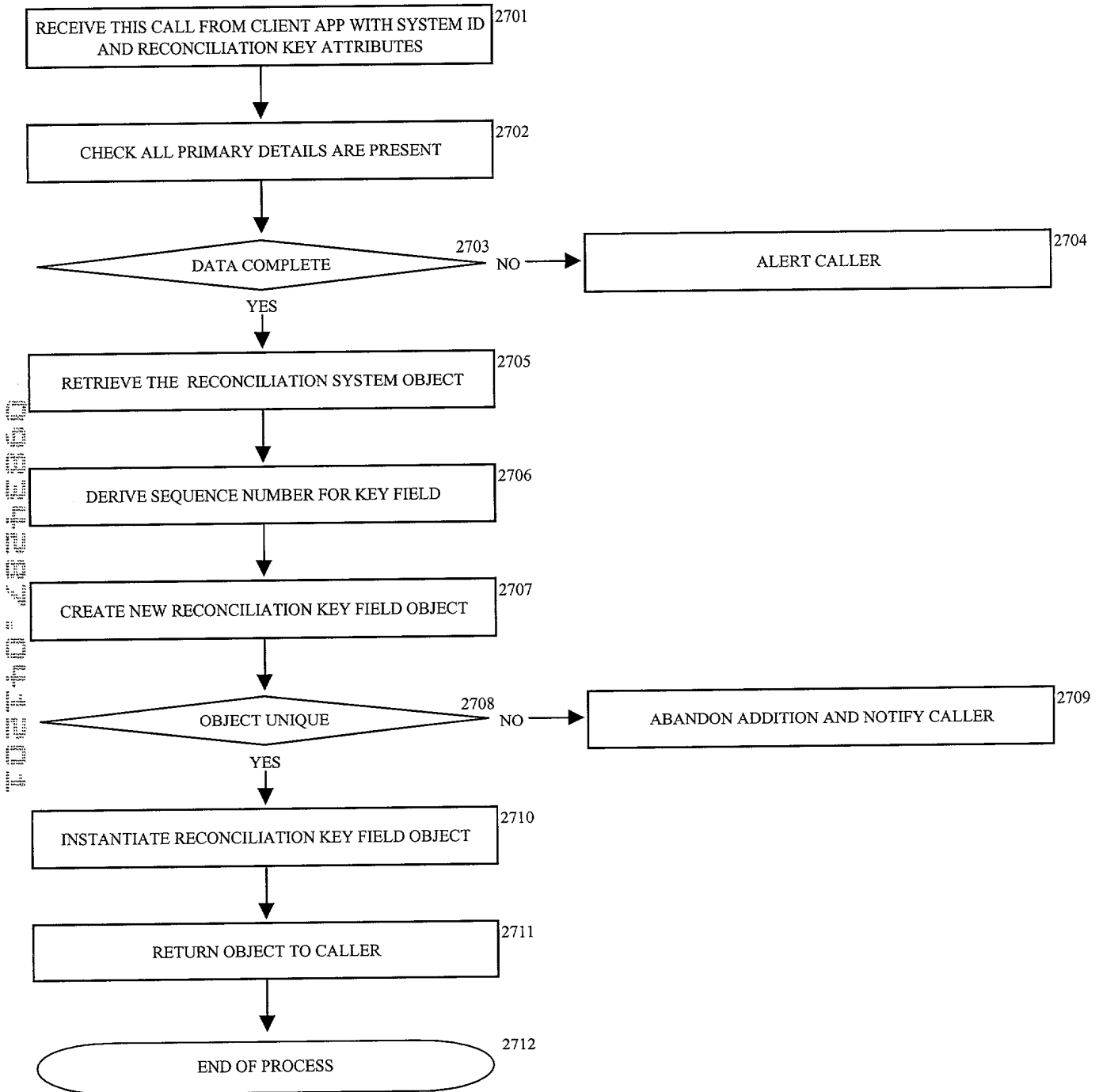


FIG. 27

REFERENCE LIBRARY PROCESSES  
CREATE DATA COMPARISON IN RECONCILIATION DEFINITION

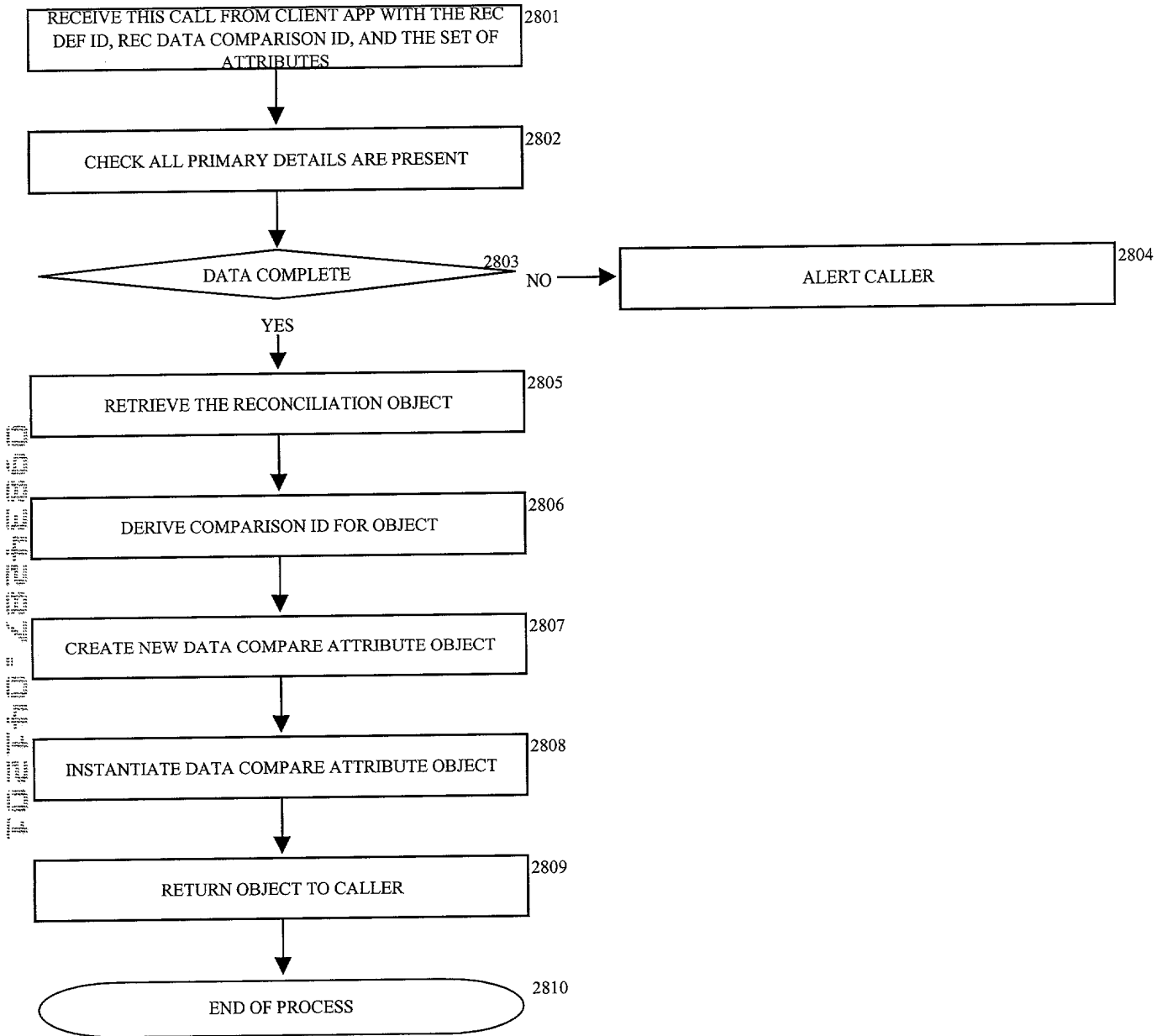


FIG. 28

REFERENCE LIBRARY PROCESSES  
ADD DATA FIELD TO RECONCILIATION SYSTEM DATA COMPARISON

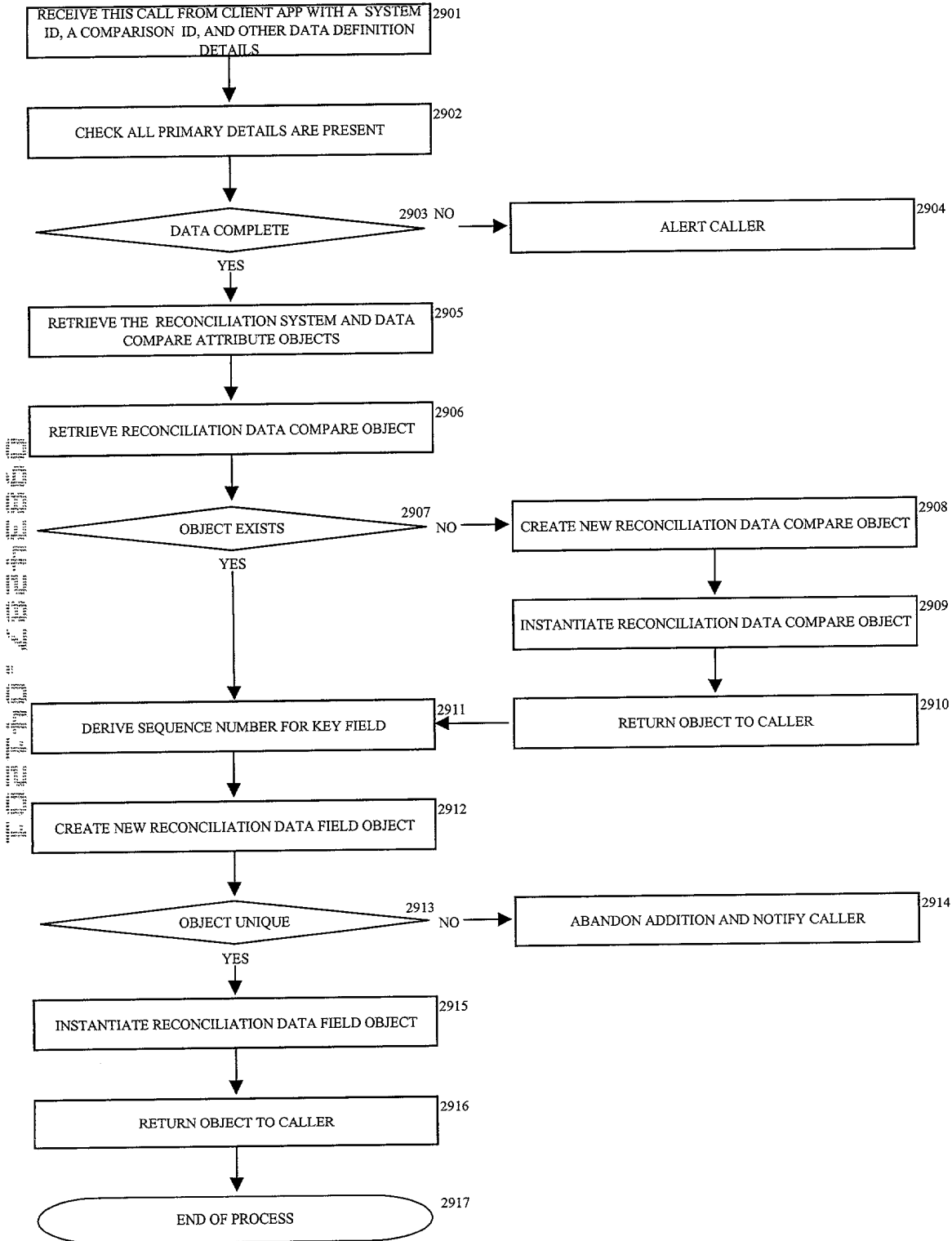


FIG. 29

**REFERENCE LIBRARY PROCESSES**  
**ADD INFORMATION FIELD TO RECONCILIATION SYSTEM**

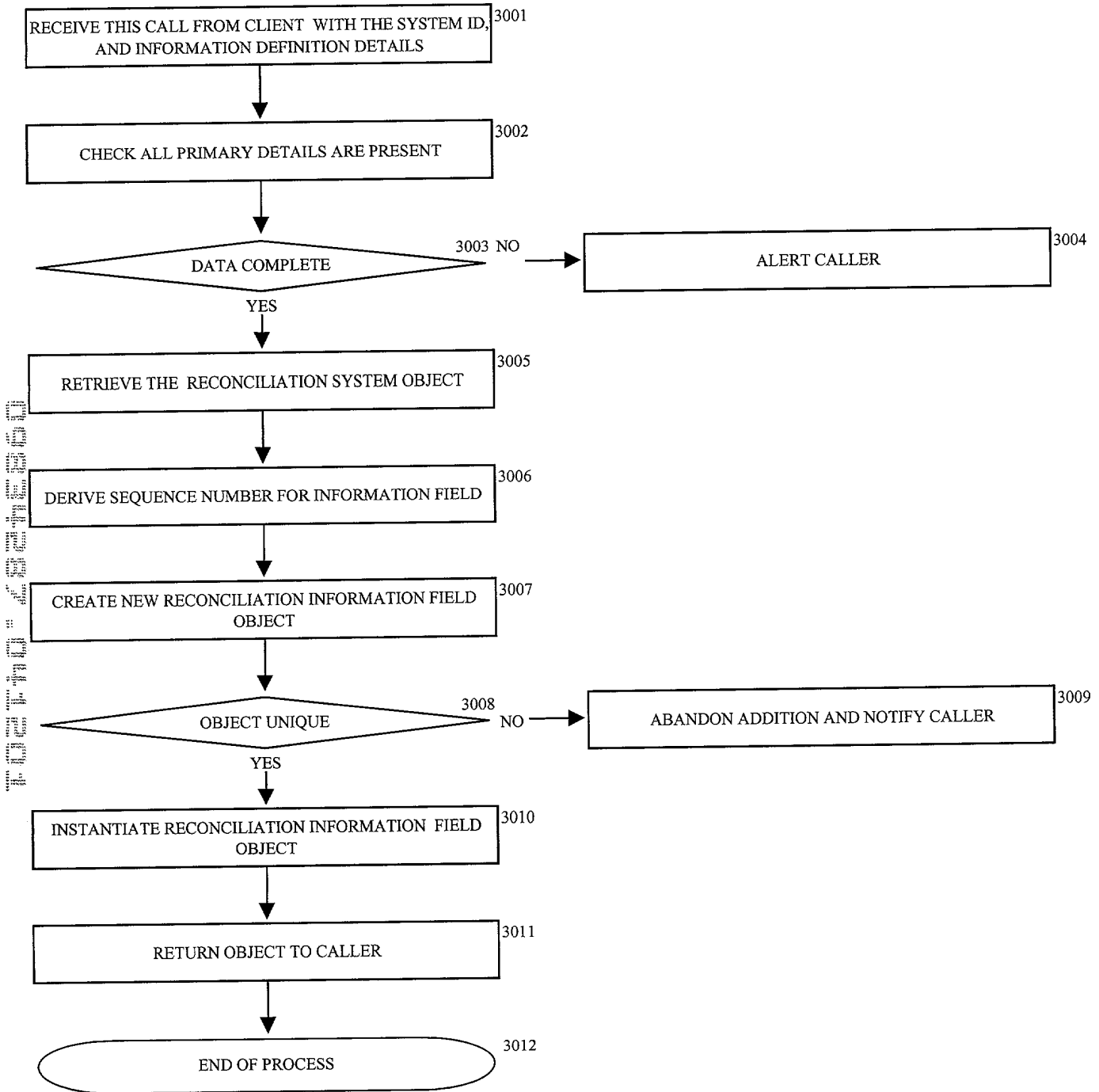


FIG. 30

IN-MEMORY OBJECT DELETION METHODS

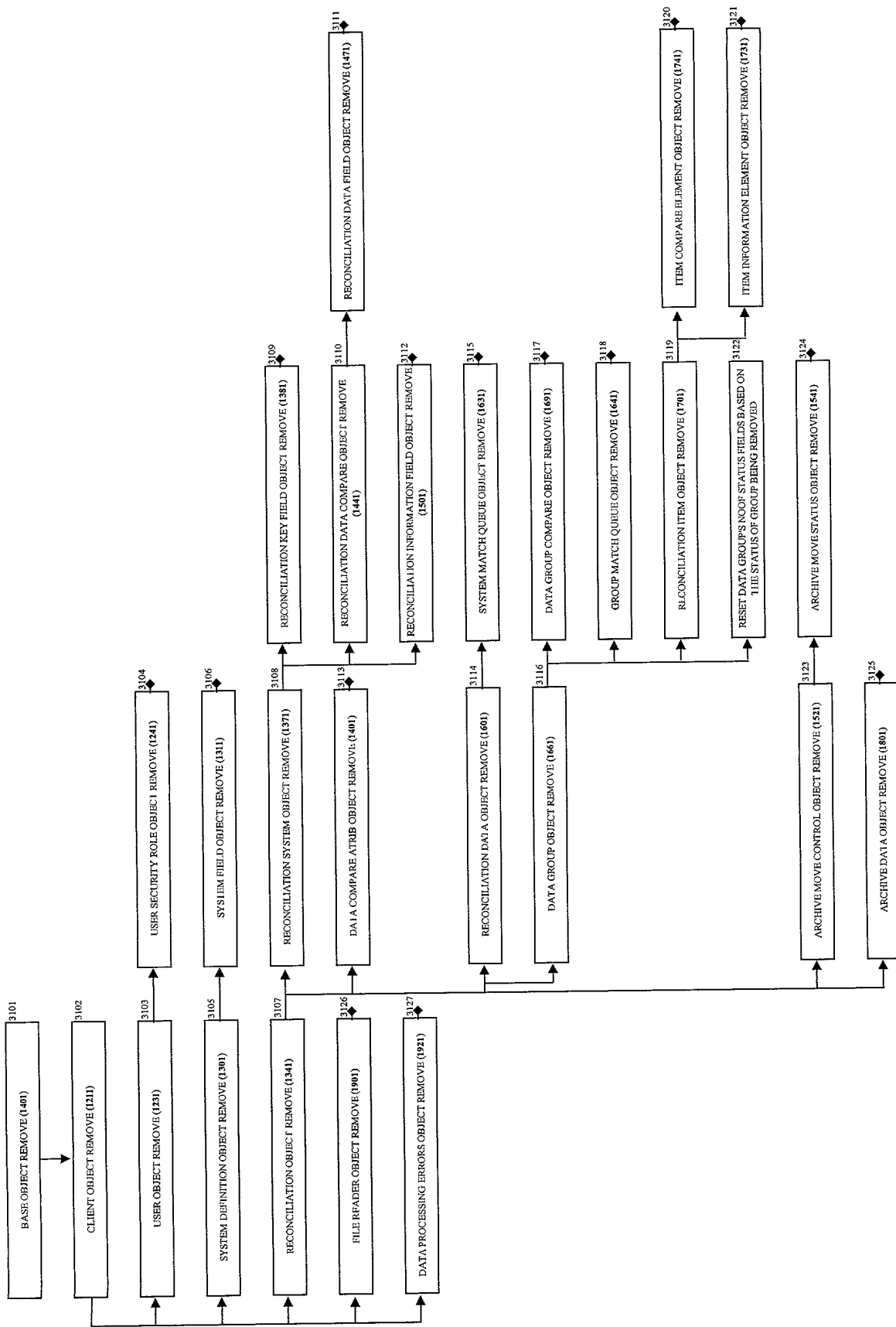


FIG. 31

MESSAGE RELATED PROCESSES  
PROCESS SINGE RECONCILIATION MESSAGE

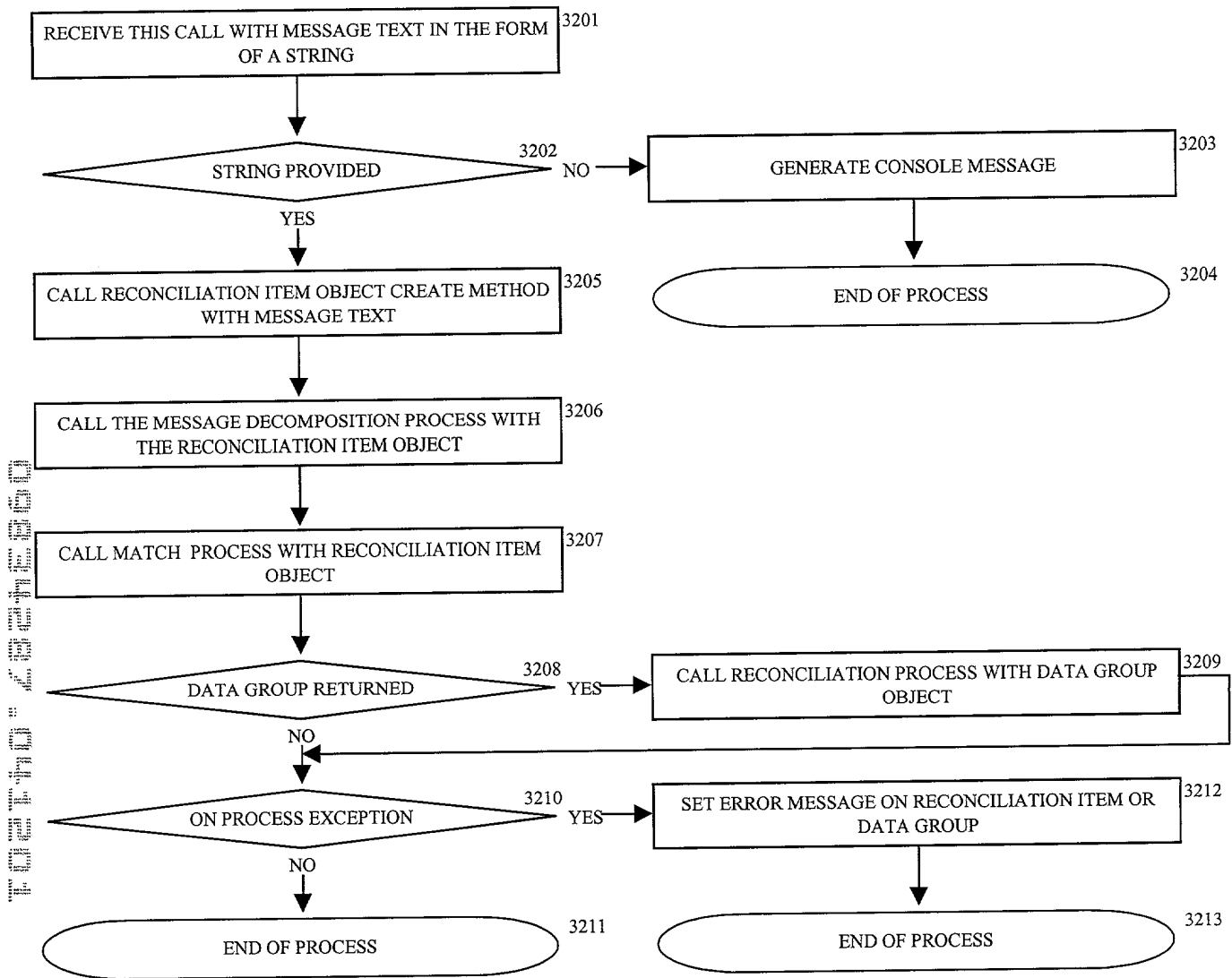


FIG. 32



MESSAGE RELATED PROCESSES  
CREATE RECONCILIATION ITEM OBJECT

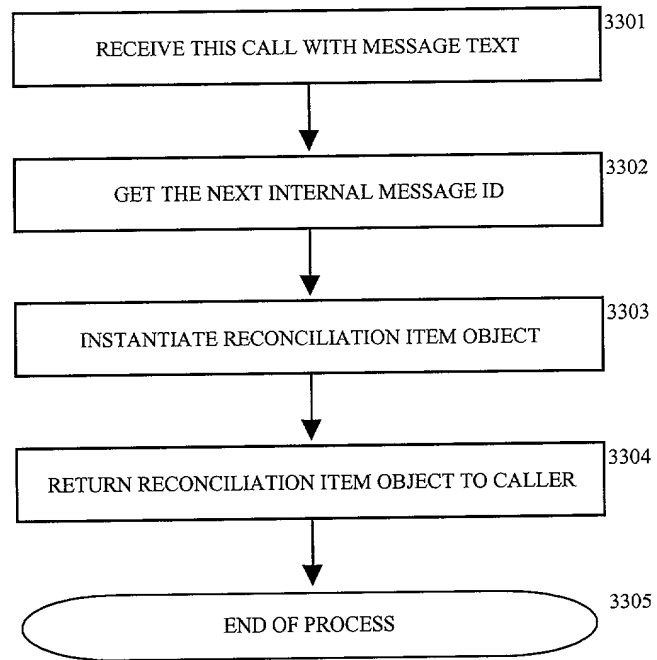


FIG. 33

MESSAGE RELATED PROCESSES  
DECOMPOSE RECONCILIATION ITEM

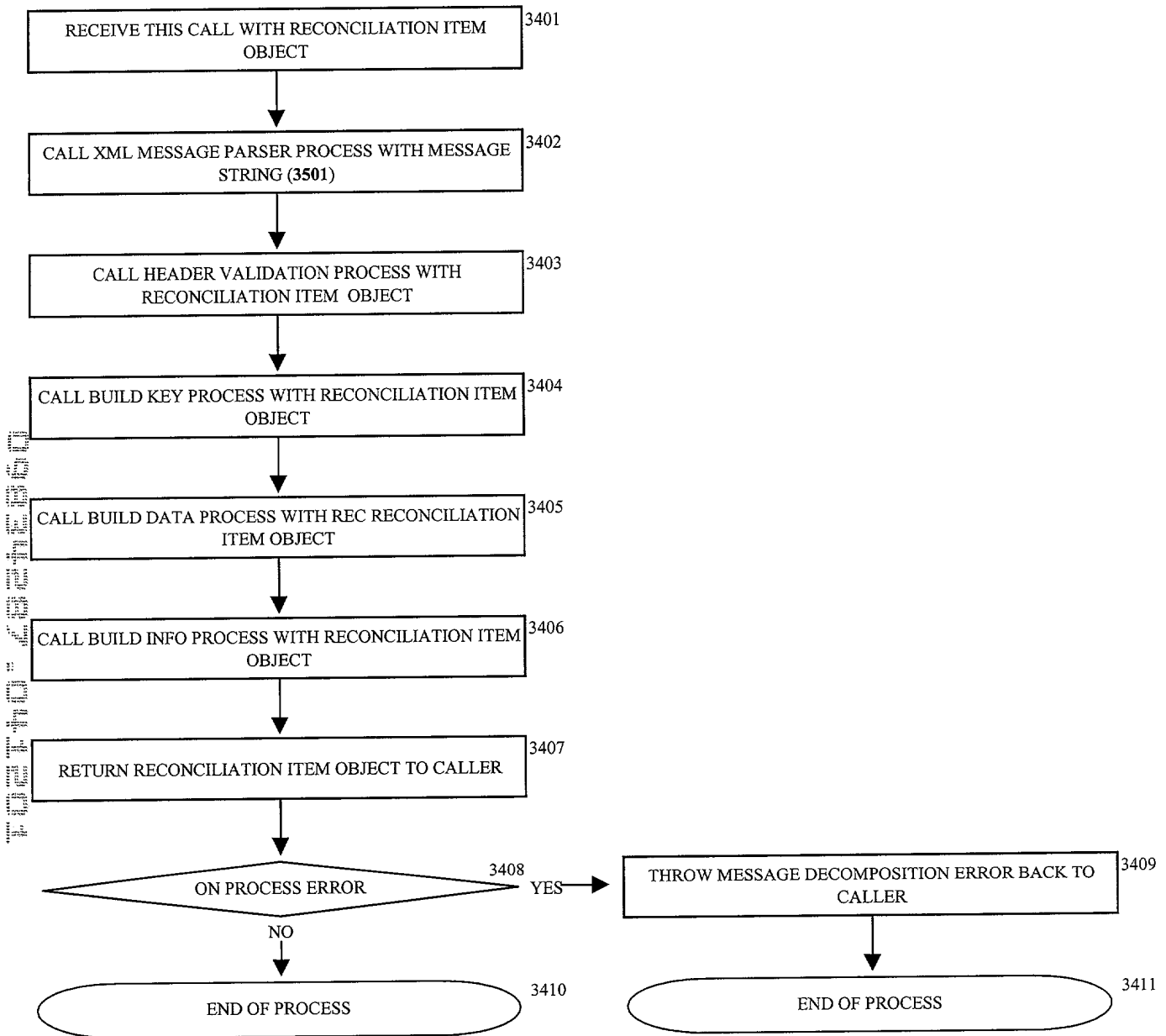


FIG. 34

MESSAGE RELATED PROCESSES  
XML MESSAGE PARSER

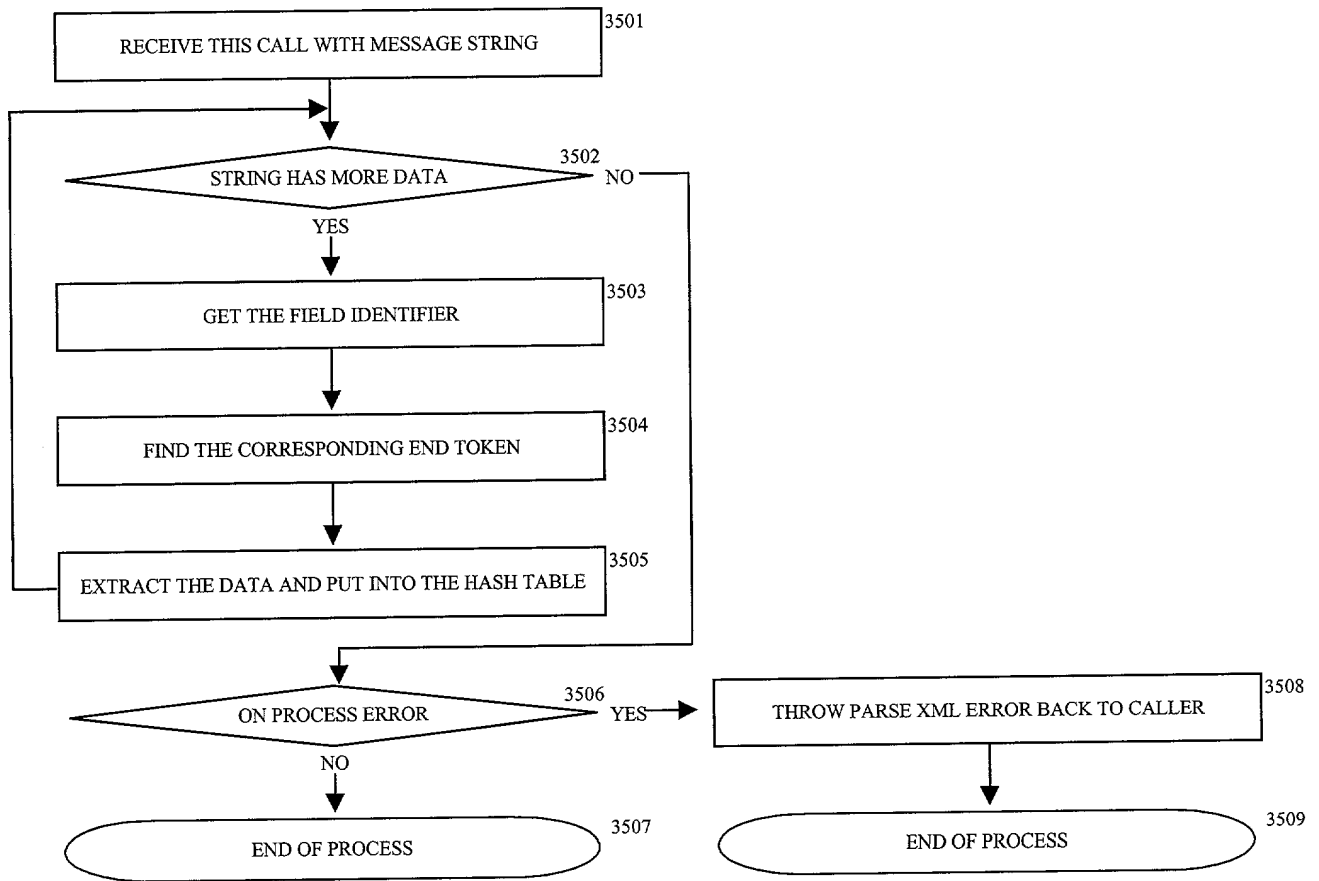


FIG. 35

MESSAGE RELATED PROCESSES  
PROCESS HEADER DETAILS

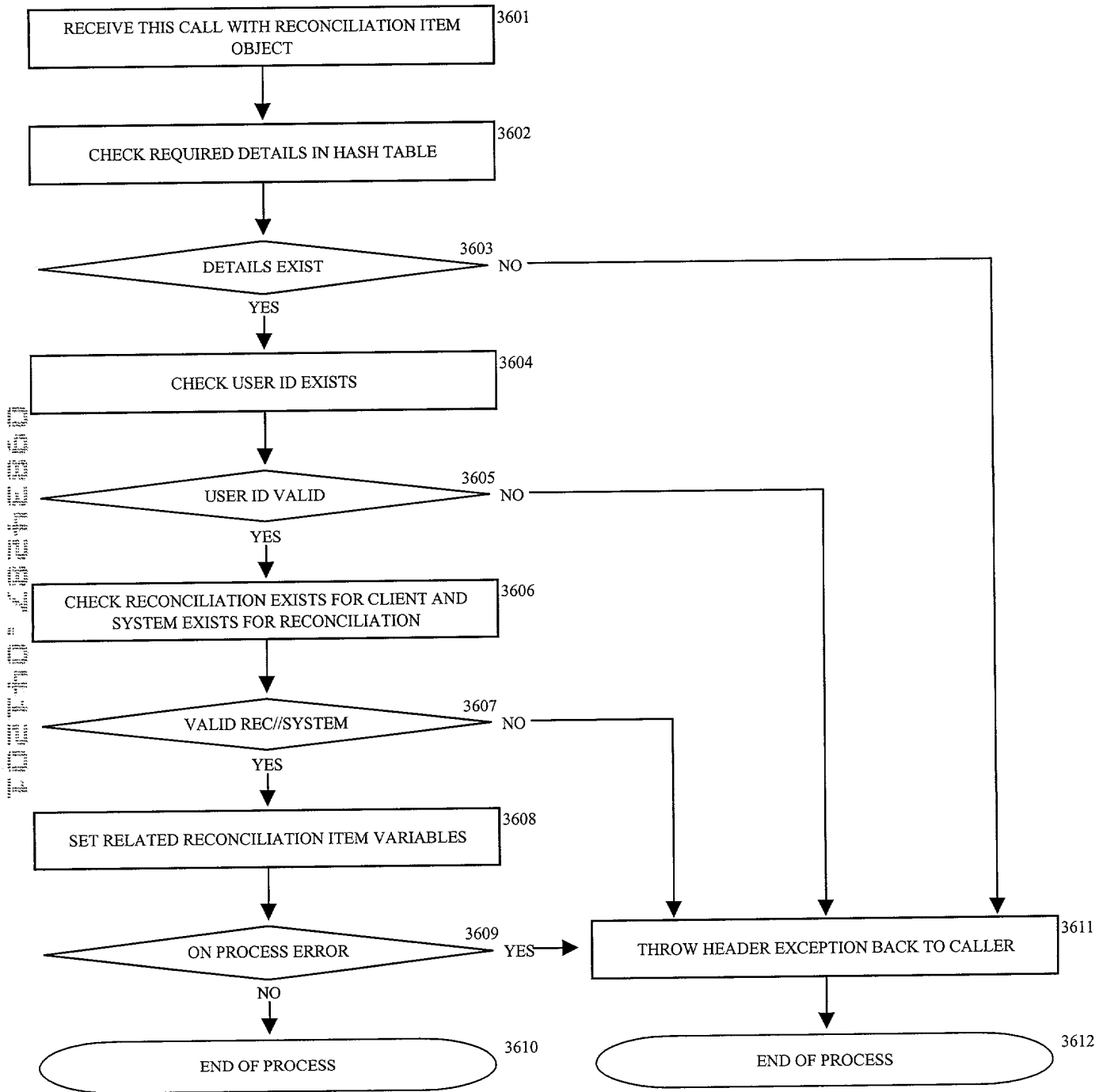


FIG. 36

MESSAGE RELATED PROCESSES  
BUILD KEY

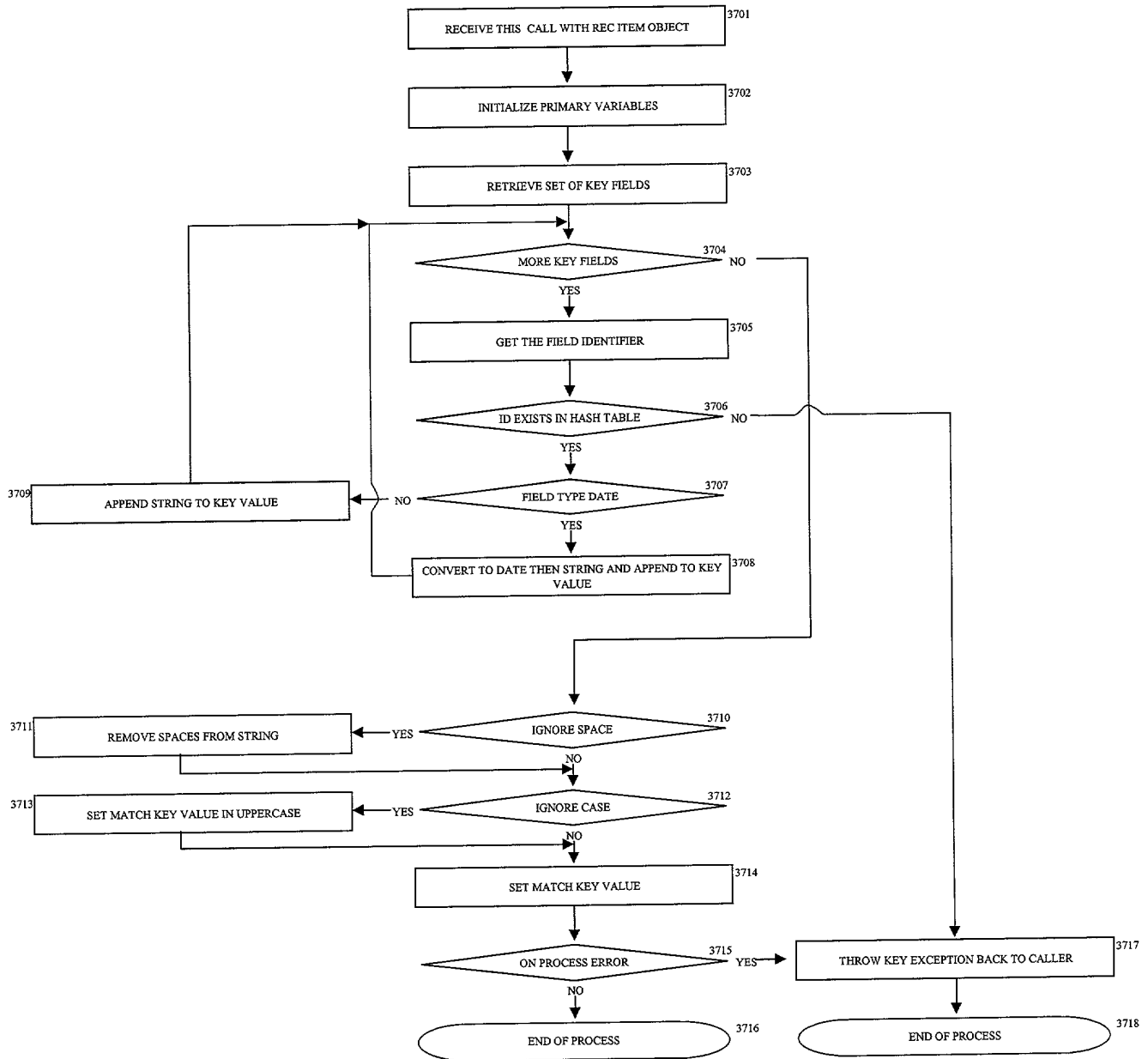


FIG. 37

MESSAGE RELATED PROCESSES  
BUILD DATA

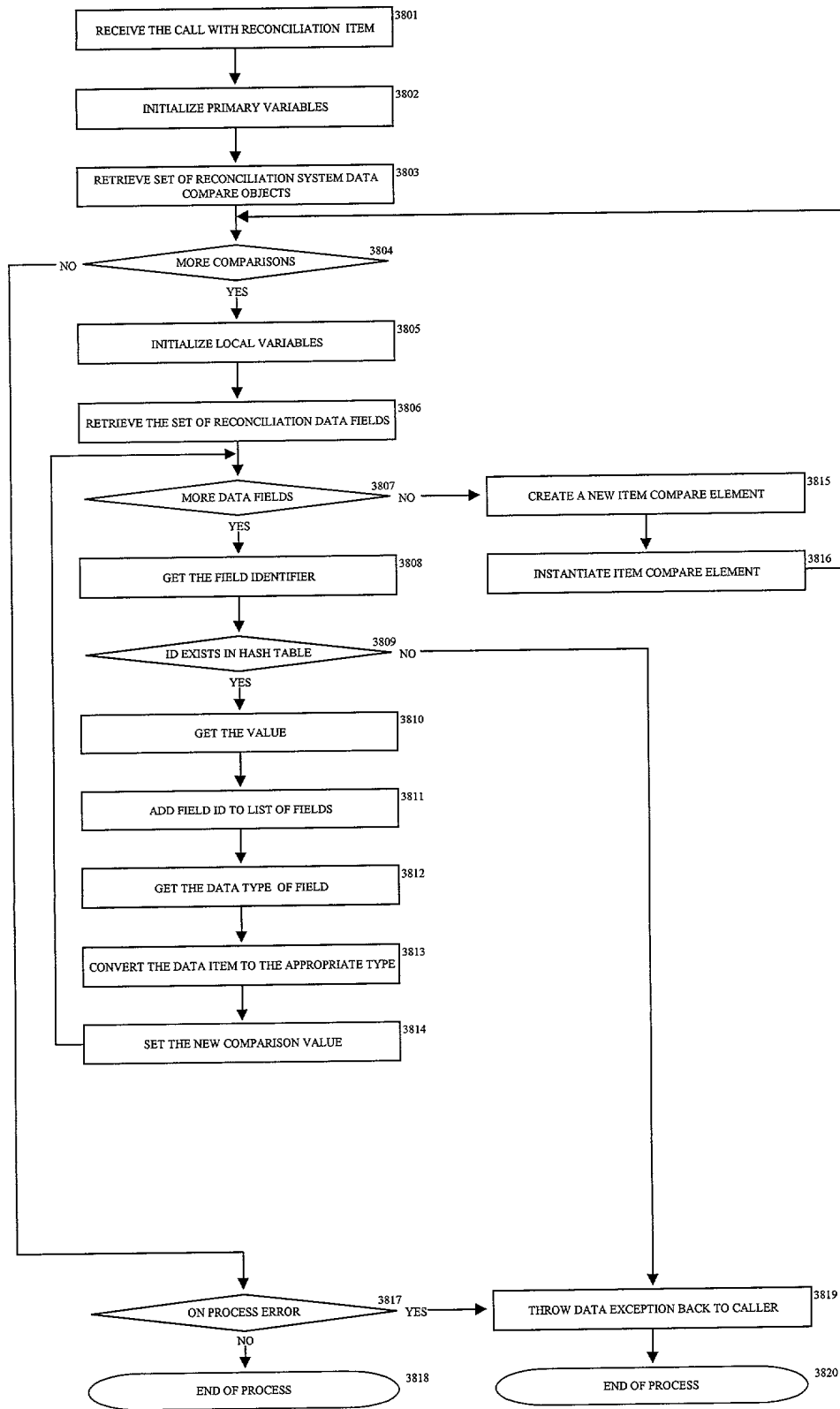


FIG. 38

MESSAGE RELATED PROCESSES  
BUILD INFORMATION

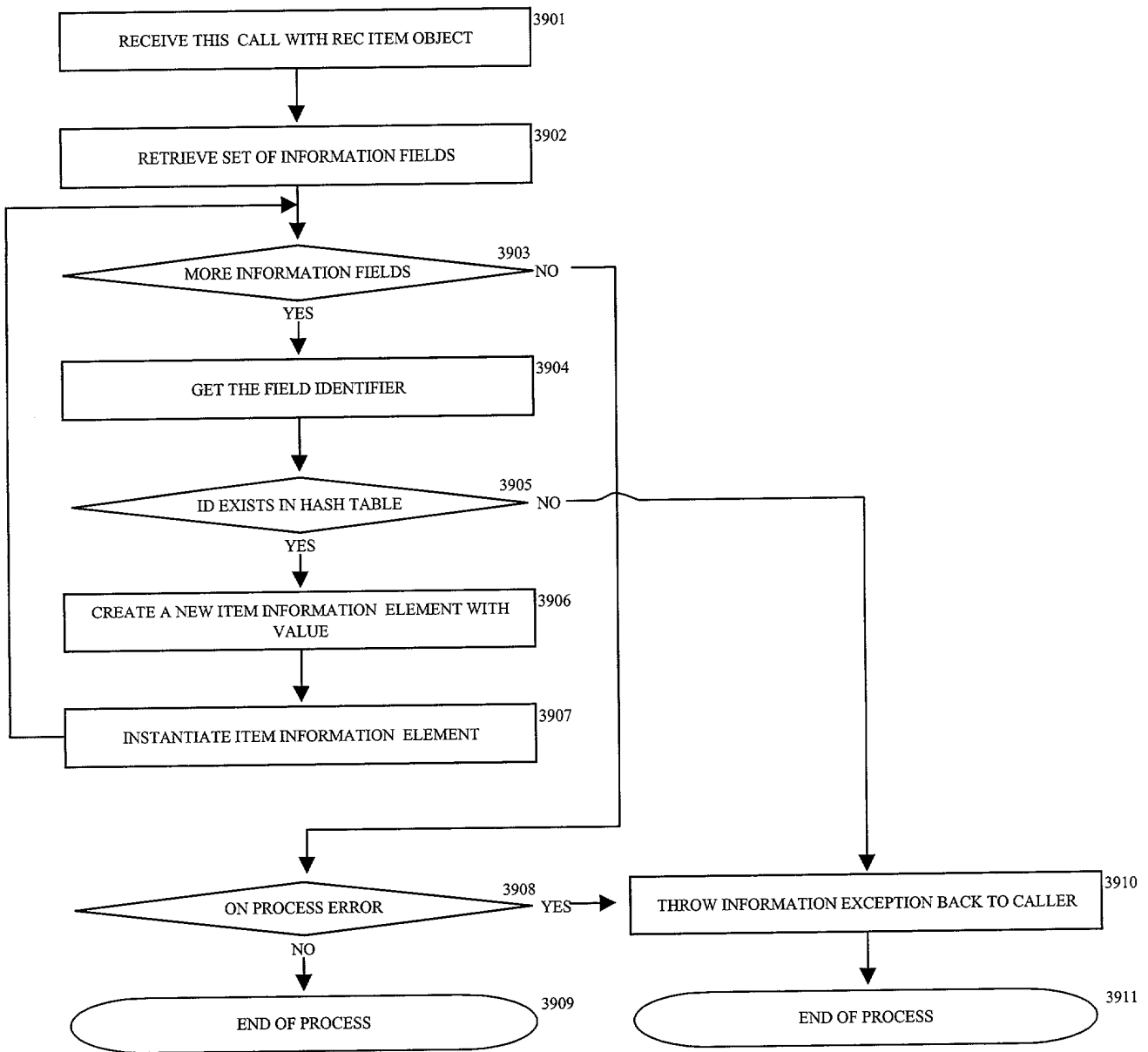


FIG. 39

MESSAGE RELATED PROCESSES  
MATCH

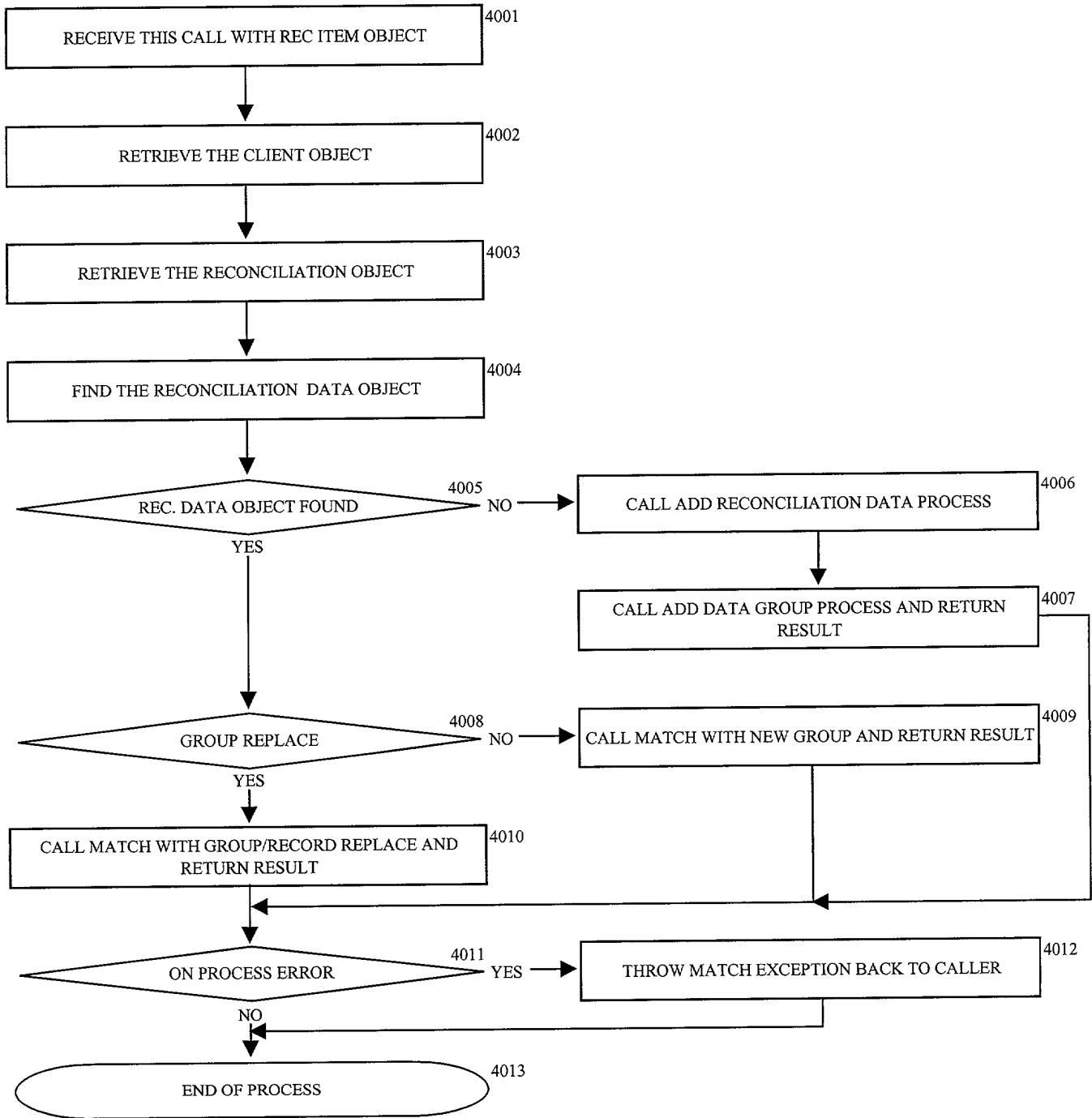


FIG. 40



MESSAGE RELATED PROCESSES  
MATCH WITH GROUP/RECORD REPLACE

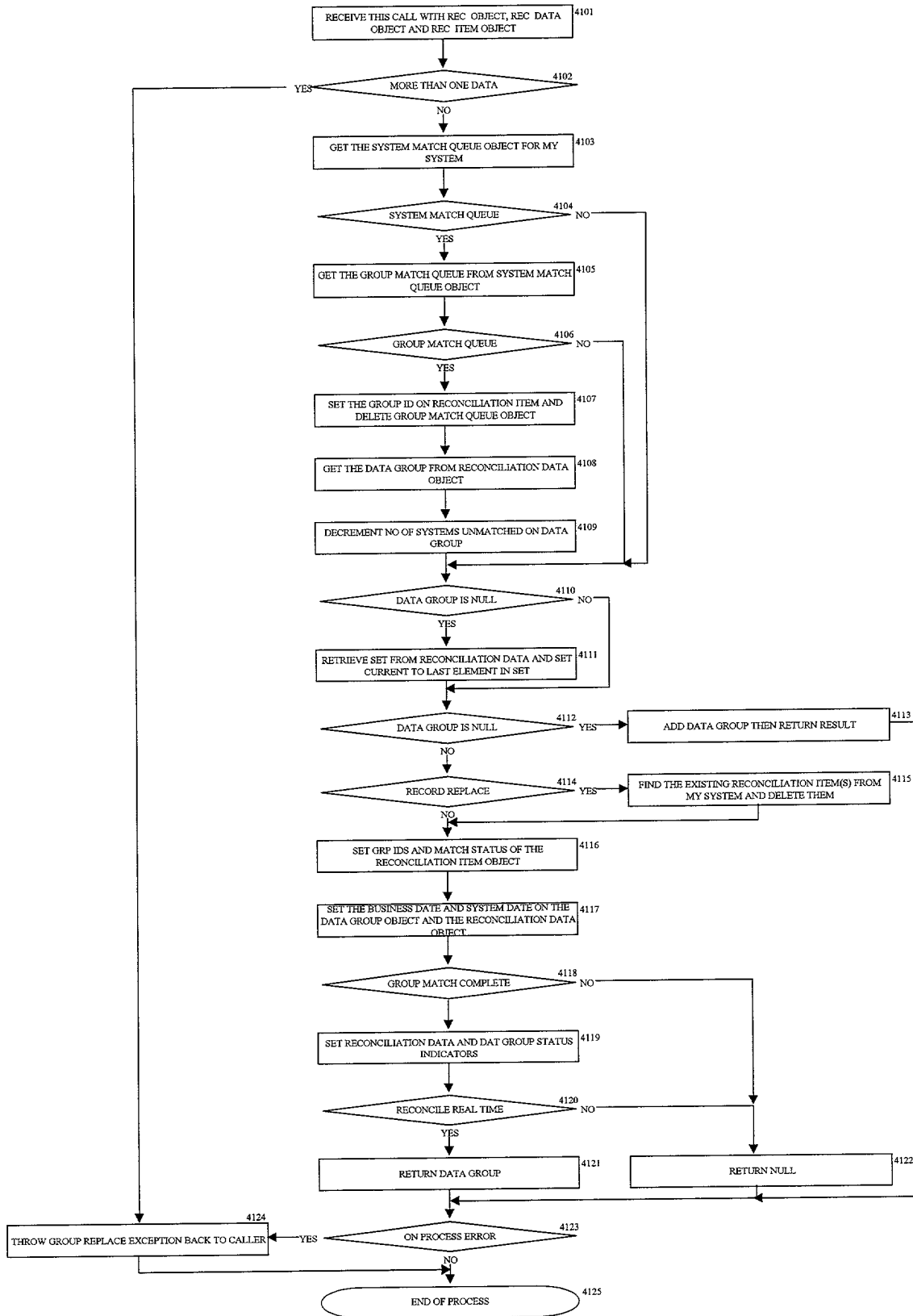


FIG. 41

MESSAGE RELATED PROCESSES  
MATCH WITH NEW GROUP

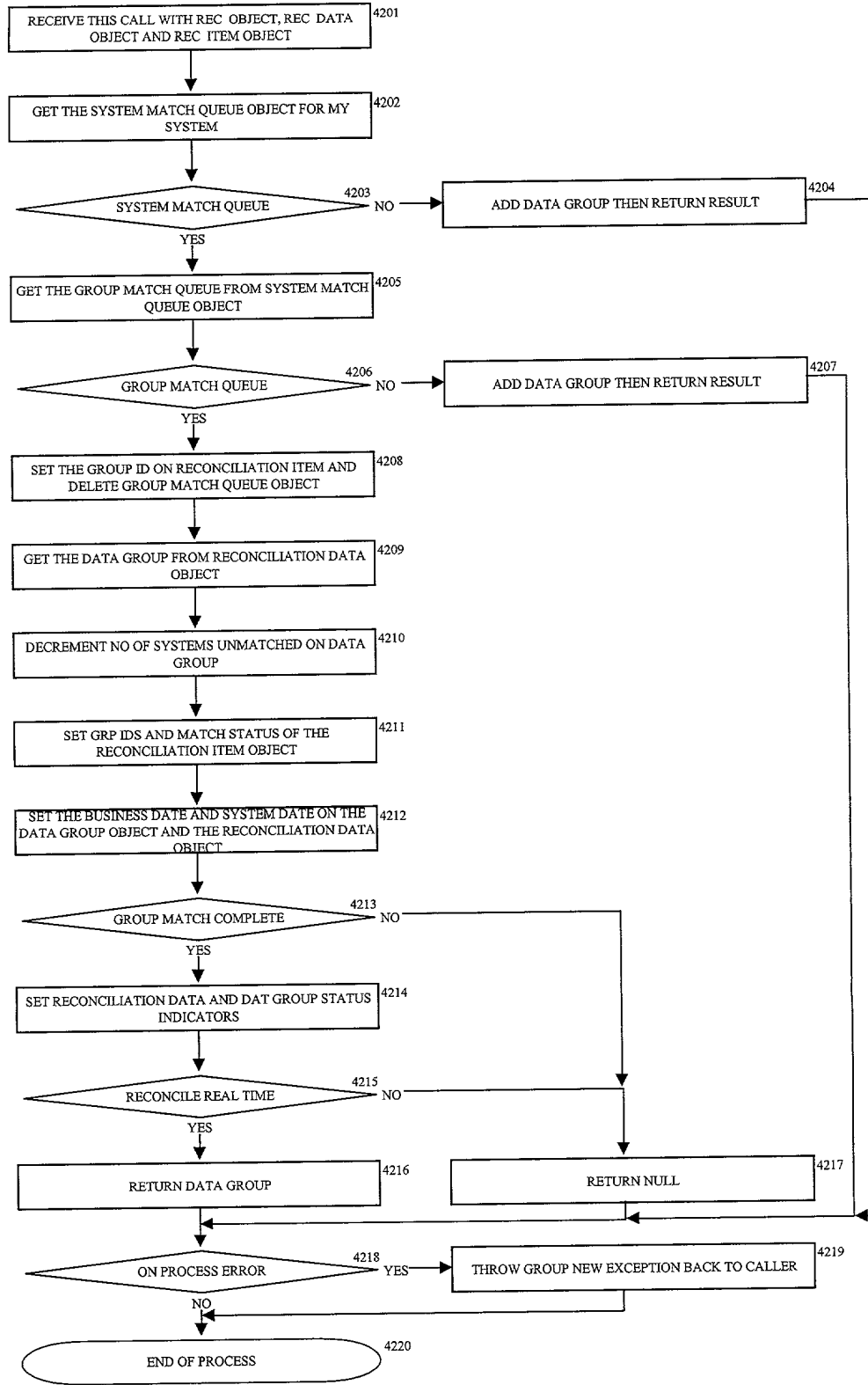


FIG. 42

MESSAGE RELATED PROCESSES  
CREATE RECONCILIATION DATA OBJECT

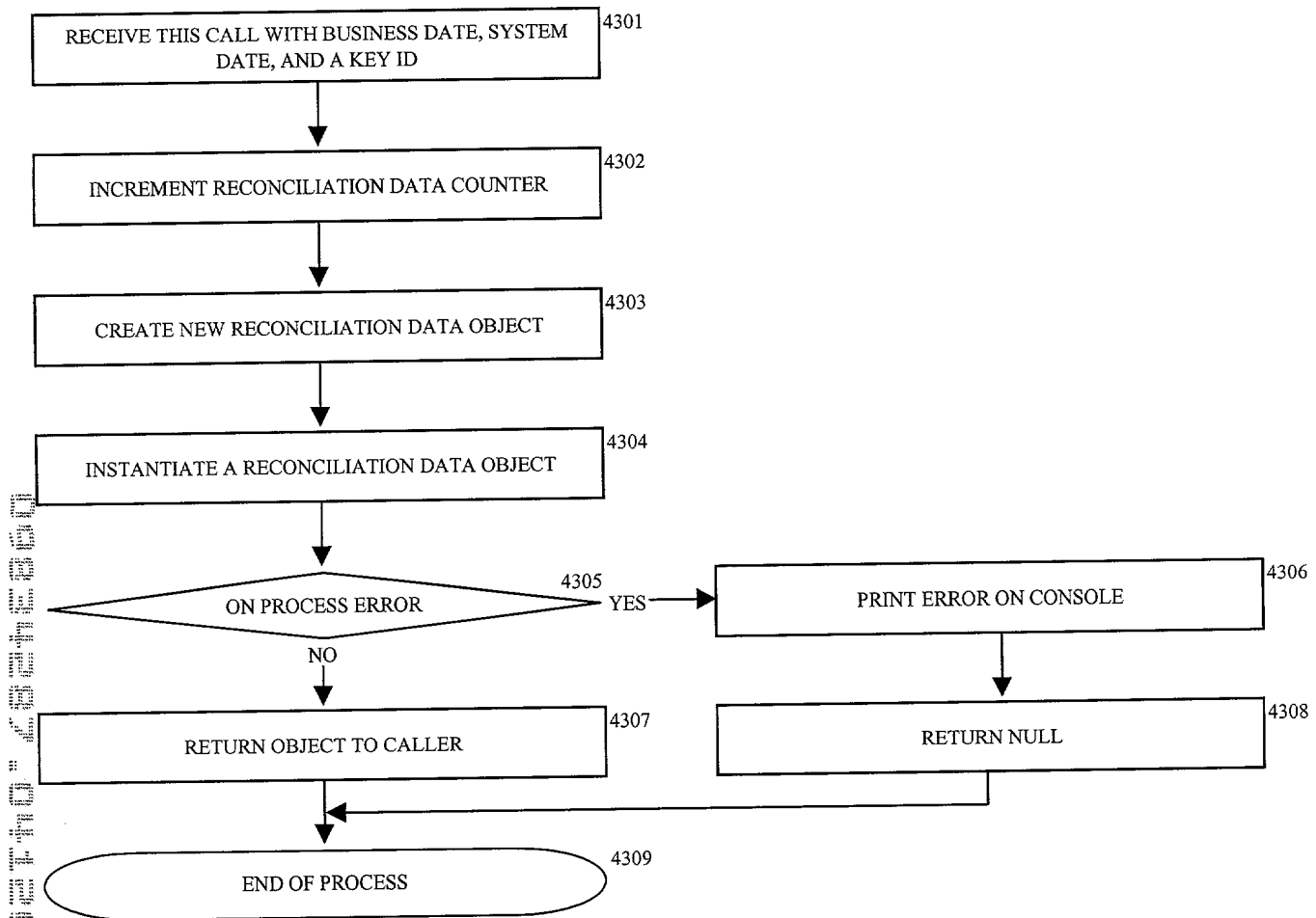


FIG. 43

MESSAGE RELATED PROCESSES  
ADD DATA GROUP

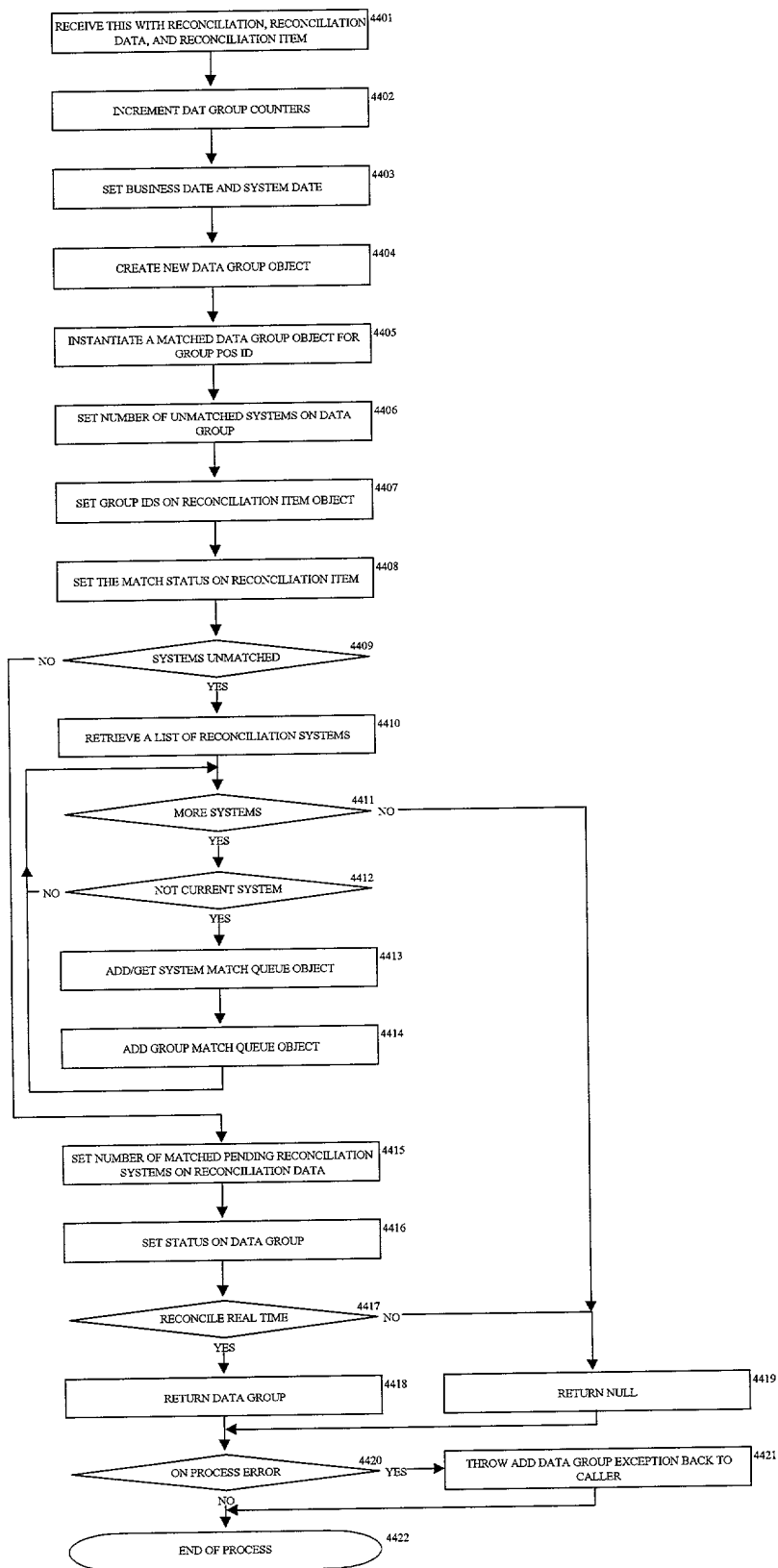


FIG. 44

MESSAGE RELATED PROCESSES  
RECONCILE

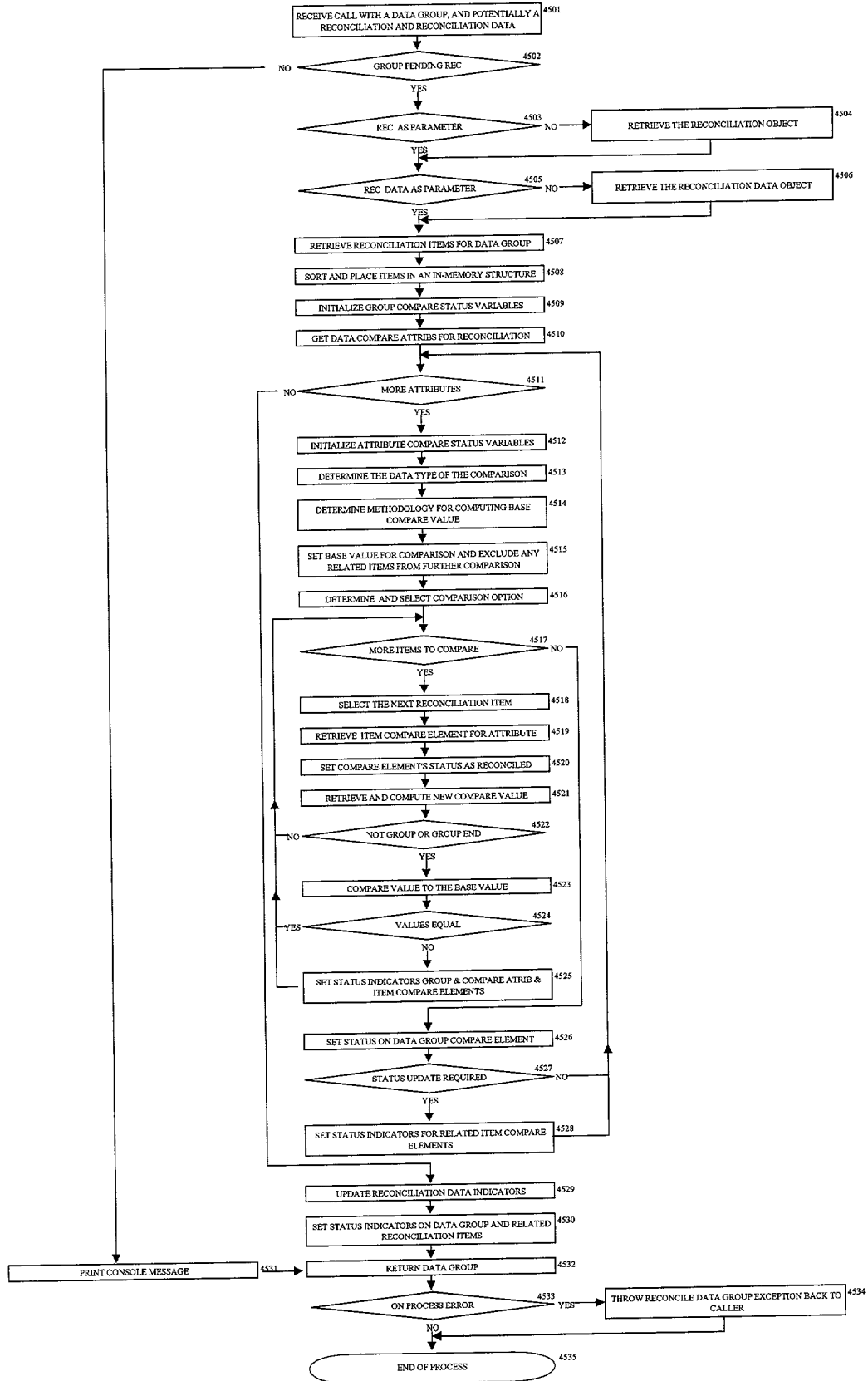


FIG. 45

DATA INTEGRATION PROCESSES  
DIRECT MESSAGE BASED DATA INTEGRATION

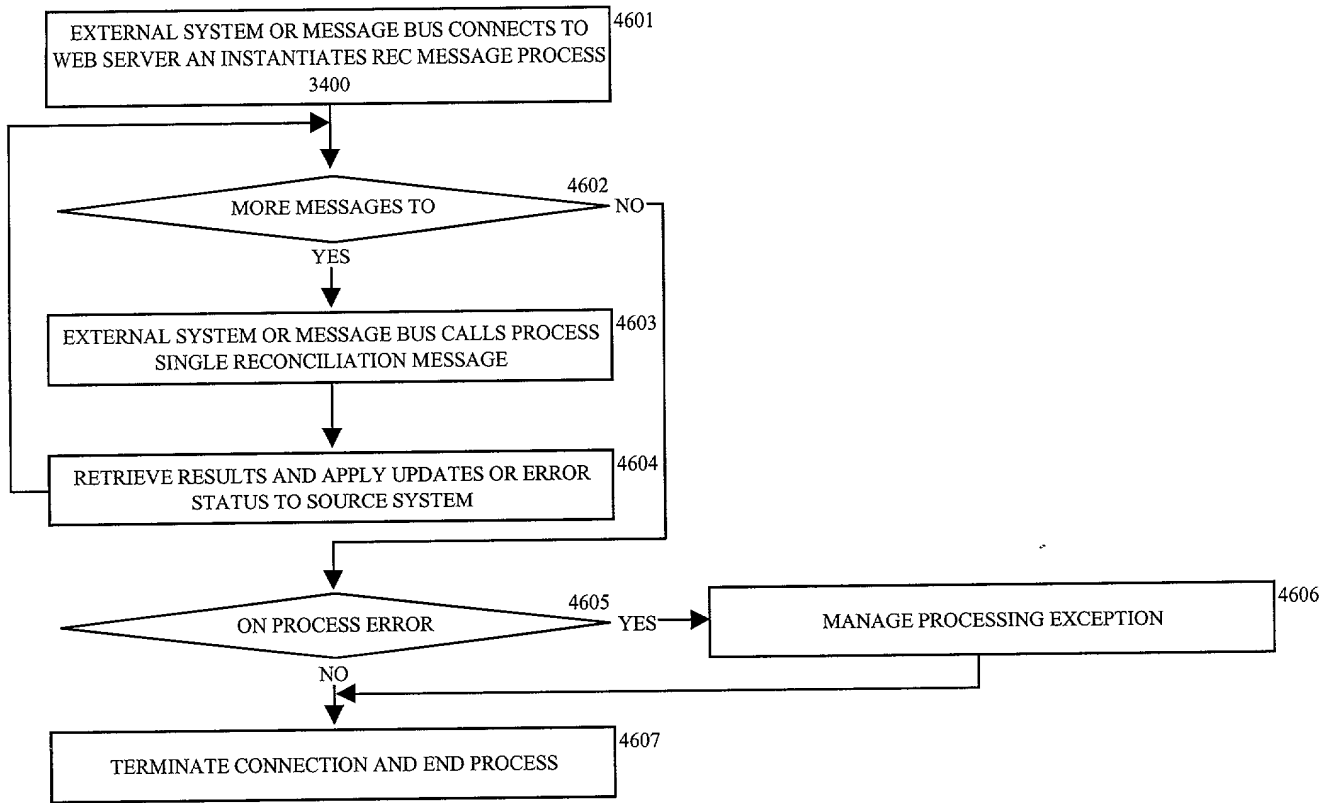


FIG. 46

DATA INTEGRATION PROCESSES  
DIRECT DATA SOURCE LINK BASED DATA INTEGRATION



FIG. 47

DATA INTEGRATION PROCESSES  
FILE BASED DATA INTEGRATION

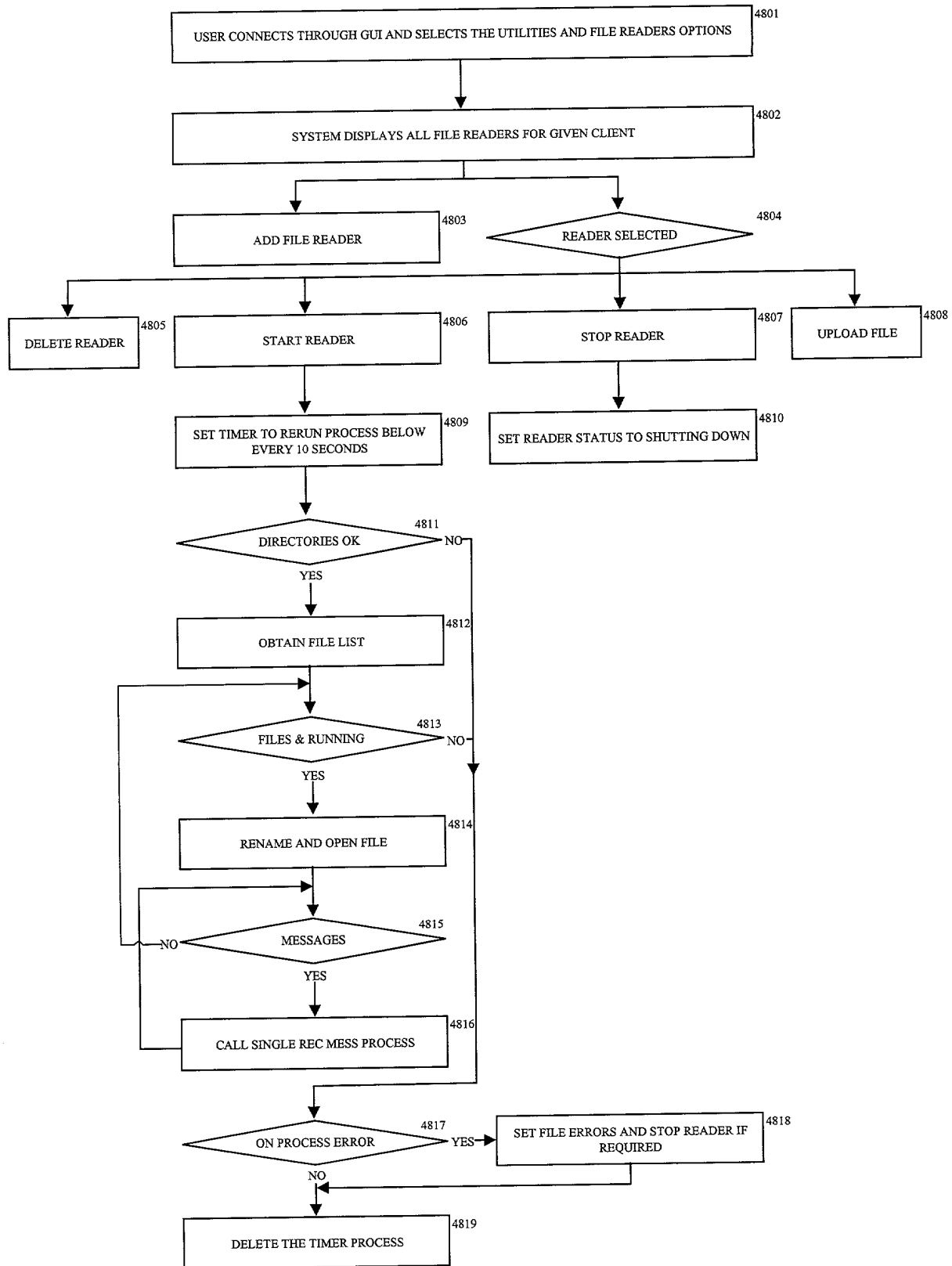


FIG. 48



# USER DRIVEN DATA PROCESSES DATA RETRIEVAL / REVIEW / UPDATE

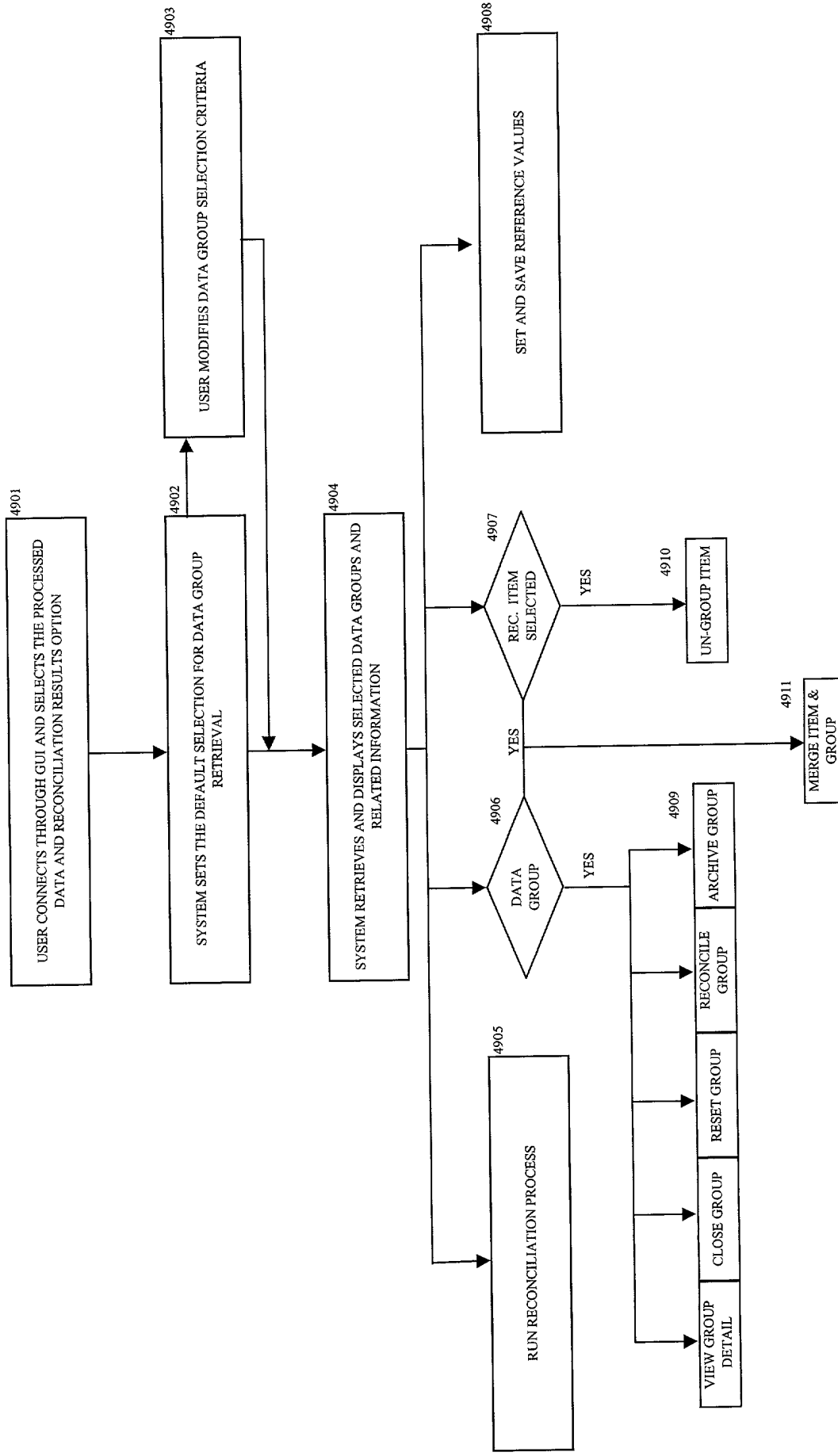


FIG. 49

USER DRIVEN DATA PROCESSES  
REPORT CREATION / EXTRACTION / UPDATING

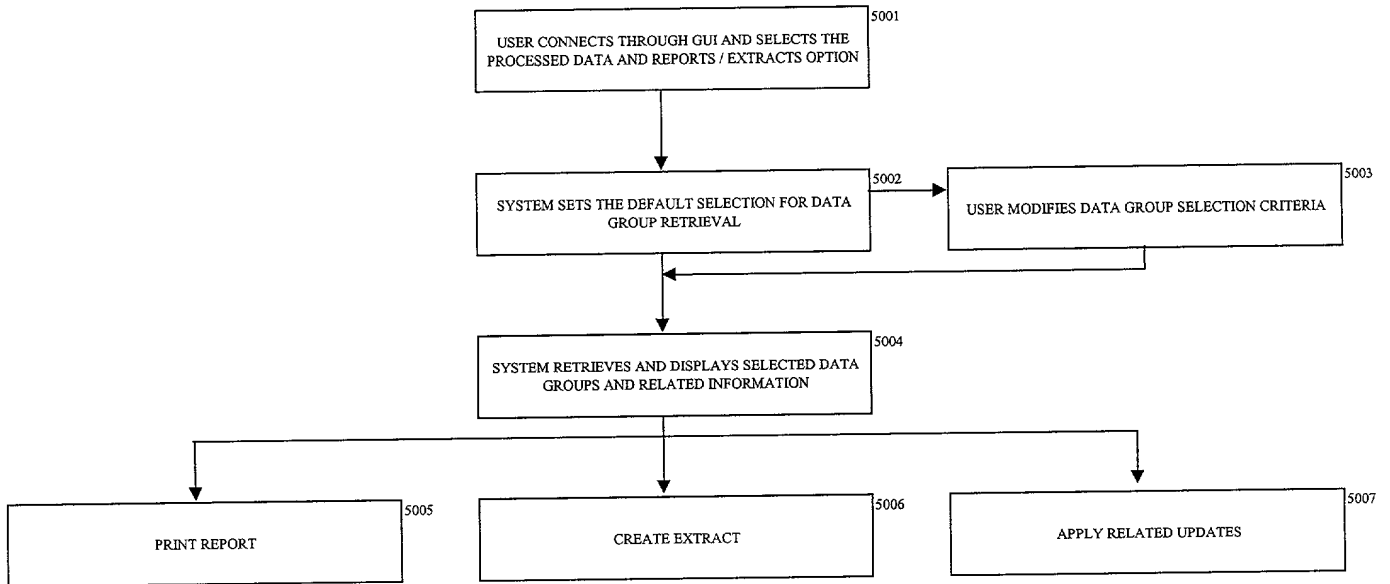


FIG. 50

USER DRIVEN DATA PROCESSES  
CLIENT DETAIL MODIFICATION

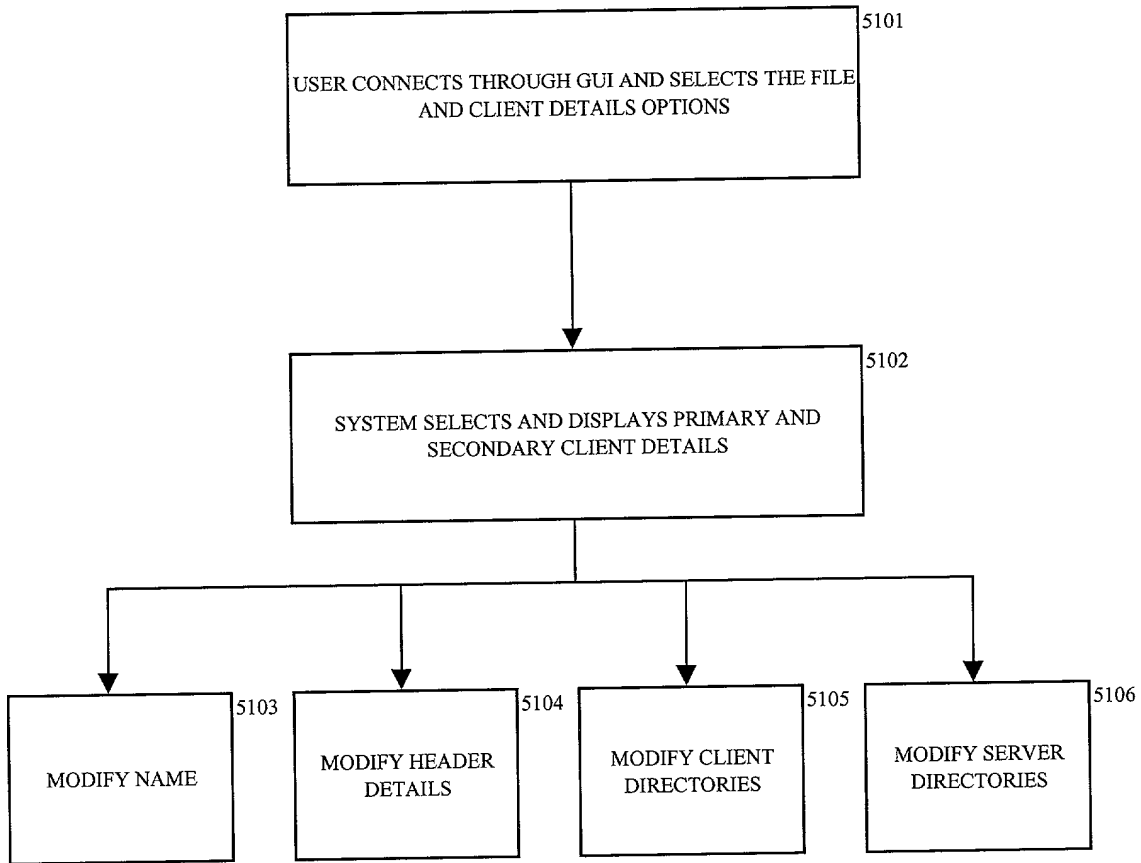


FIG. 51

USER DRIVEN DATA PROCESSES  
USER ADD / DELETE / DETAIL MODIFICATION

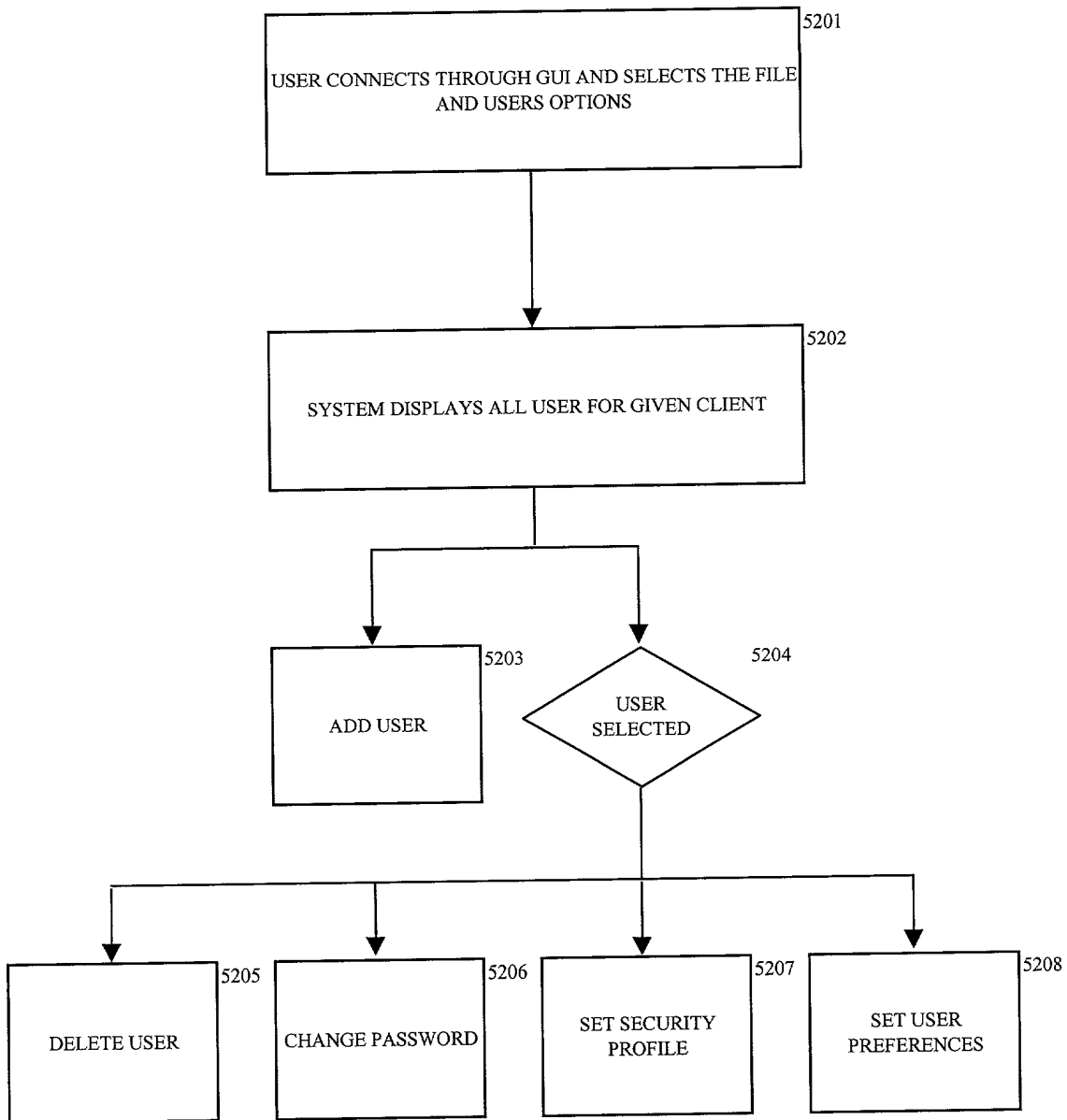


FIG. 52

ARCHIVE RELATED PROCESSES  
MOVE DATA GROUP TO ARCHIVE

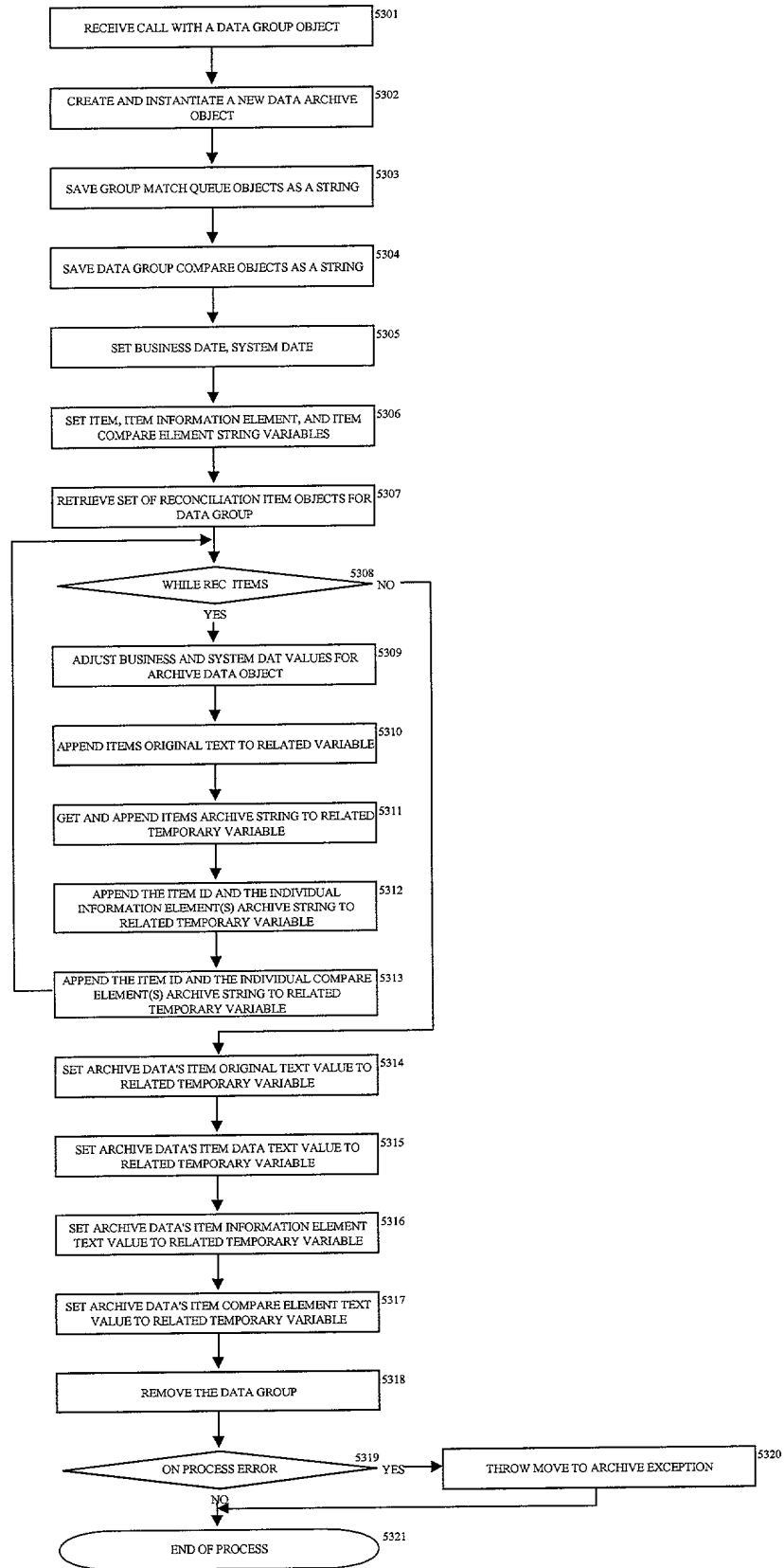


FIG. 53

ARCHIVE RELATED PROCESSES  
RESTORE DATA GROUP FROM ARCHIVE

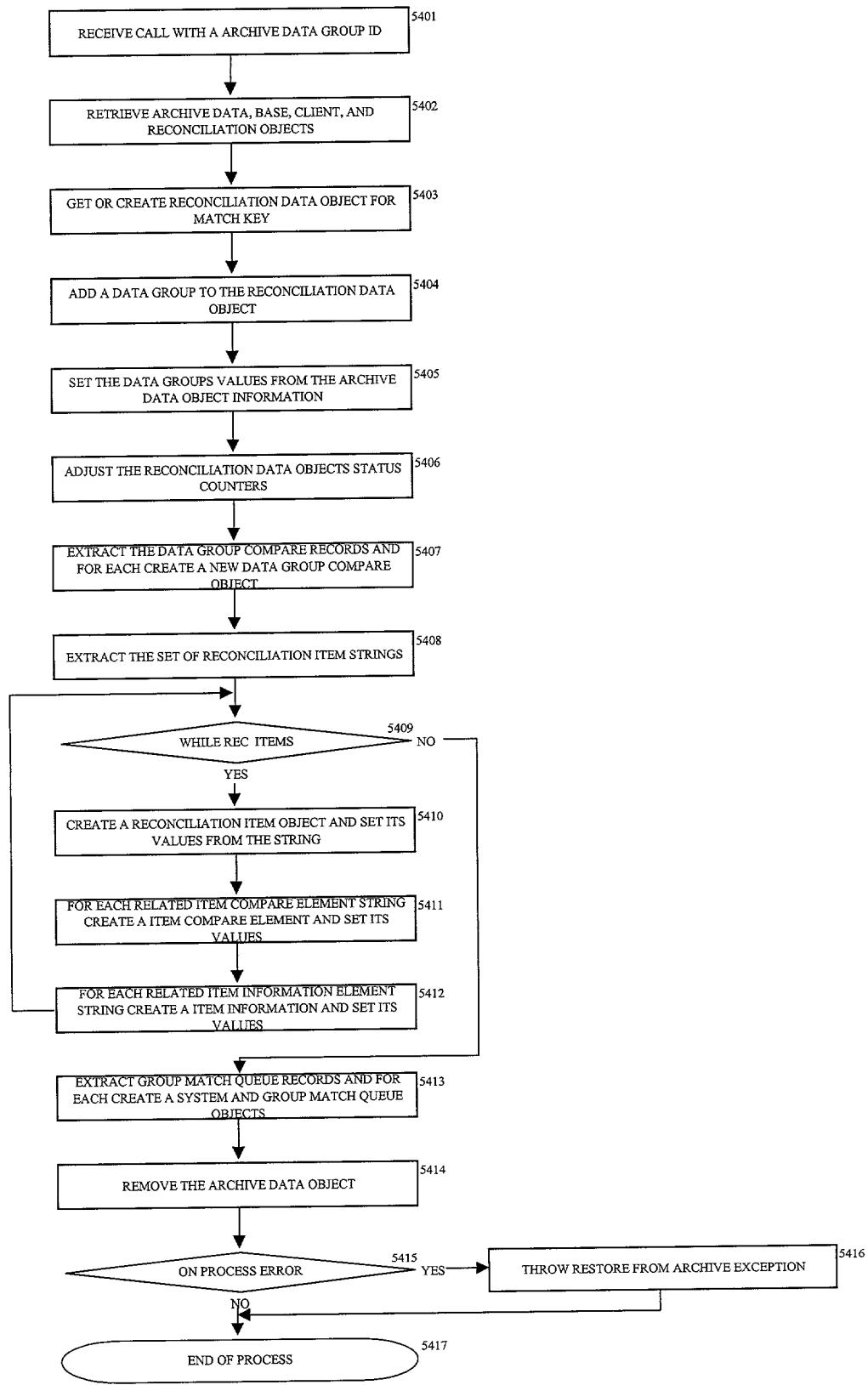


FIG. 54

USER DRIVEN DATA PROCESSES  
ARCHIVE GROUP MANAGEMENT

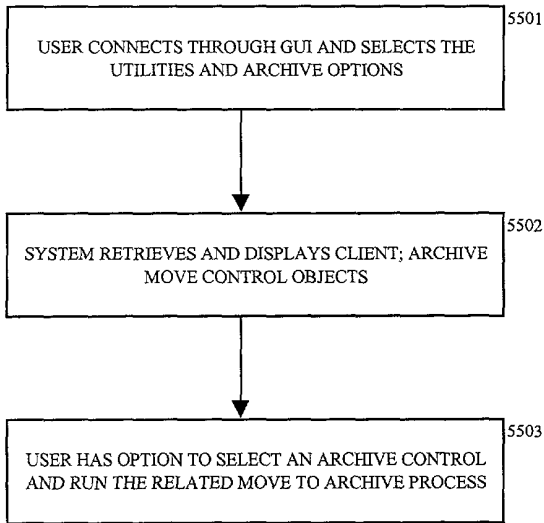


FIG. 55a

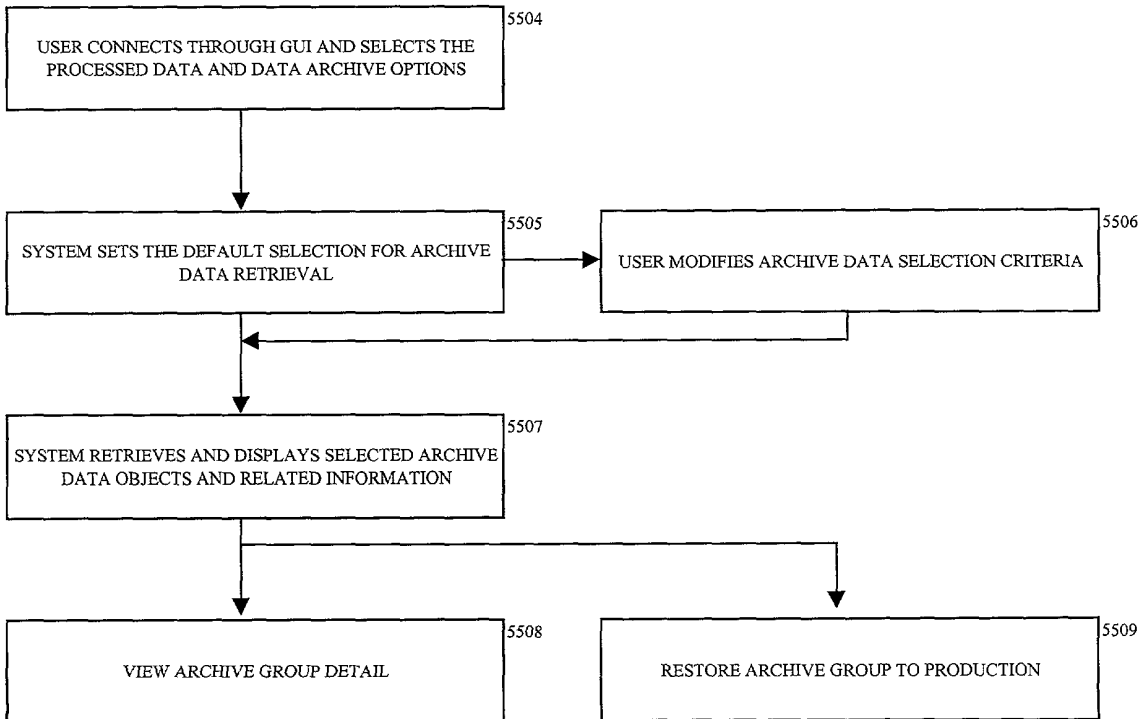


FIG. 55b

USER DRIVEN DATA PROCESSES  
ERROR REVIEW AND MANAGEMENT

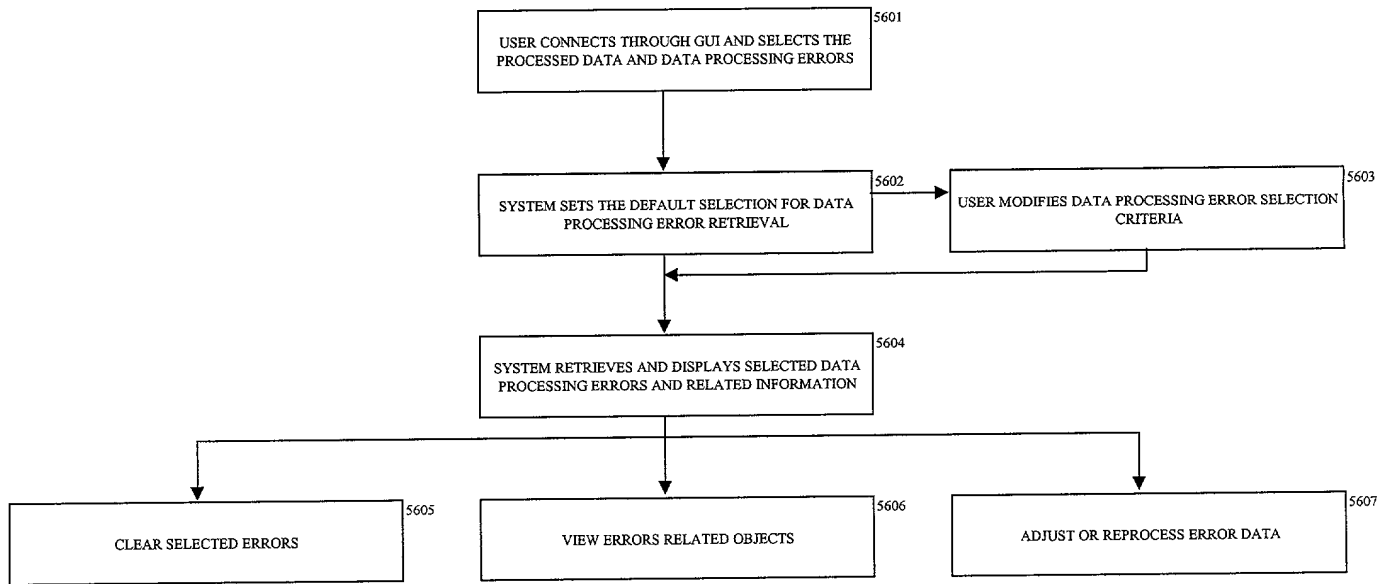


FIG. 56